SEQUENCE LISTING

<110> Sun, Yongming
Recipon, Herve
Chen, Sei-Yu
Liu, Chenghua

<120> Compositions and Methods Relating to Prostate Specific Genes and Proteins

<130> DEX-0259

<140> 10/000,256
<141> 2001-11-01

<150> 60/244,782
<151> 2000-11-01

<160> 240

<170> PatentIn version 3.1

<210> 1
<211> 55
<212> DNA
<213> Homo sapien

<400> 1
catttaattg gcttgtccca agcaactcat ctcaaatact aaatccaaaa gaaaa 55

<210> 2
<211> 380
<212> DNA
<213> Homo sapien

<400> 2
caacgaacta gatgagaatg agaggaactg gaagaagggt cagatgaaag tgagatccat 60

acatccttct tcagcaactt gtgcctctgc tctgcacctc ccgcaattaa ctactgaaaa 120

aagaacacag cttcacaaaa gagattgtaa aatcaggaag tatatctaag tcacctccag 180

tagccgtaac tctaccttgt ccagtaaaag gtgatgcatt acaaaagttg acccttaaa 240

agaaaatttg cttgatttaa catatgaaga tgctcctttt tctctctgaa gcaagagaaa 300

caattgtctc tcccttctgc tctttaatct gtcatctgca catttttact gcgaattaag 360

aataaacgtt ttaaaaatat 380

<210> 3
<211> 377
<212> DNA
<213> Homo sapien

<400> 3
ctagaggatc caagctcgga attcggctcg agatacagga taaagactct gttaacatgg 60

tgactctgca gatgccttct gtggcagctc agacctcatt aactaacagt gcgttccaag 120

cagagagcaa agtagccatt gtgagccagc ctgttgccag aagttcagtc tcagcagata 180

gtagaatttg cacagaataa aaaccatatg aatgcagtga atgtggtagt gctttcagtg 240

atcaattaca tcatatgtca caaaaaacac agaggaacaa actgatatat tcaaggtgga 300

aagcccttga ataaaacctt atggctaata agcatatact cagagaaaaa tagtatgaag 360

tggagactgg gaaattc 377

<210> 4
<211> 1044
<212> DNA
<213> Homo sapien

<400> 4
ctagaggatc caagctcgga attcggctcg agatacagga taaagactct gttaacatgg 60

tgactctgca gatgccttct gtggcagctc agacctcatt aactaacagt gcgttccaag 120

cagagagcaa agtagccatt gtgagccagc ctgttgccag aagttcagtc tcagcagata 180

gtagaatttg cacagaataa aaaccatatg aatgcagtga atgtggtagt gctttcagtg 240

atcaattaca tcatatgtca caaaaaacac agaggaacaa actgatatat tcaaggtgga 300

aagcccttga ataaaacctt atggctaata agcatatact cagagaaaaa tagtatgaag 360

tggagactgg gaaattcttt tatgggaaga tagatcttct catcagtgac catagatcac 420

atcttcagtg agcttatagt tggtagaaat ataatgatca tggaaaagtc cttgttcaga 480

aacagtacgc cagtaggtat caggggttt acacaggaga gaaacttttg gaagaccttt 540

gaaggctatg aatgtggcag ggttgctagt ggtacattct gccttatcct cagagggaat 600

catatagaaa taaaactatg aaaatgtaac tagaacatct tcatcaaaat atgaaagaac 660

acacgaagca aataagccct gtgaaaagga gtattttaga gatttcgatc agaaatctaa 720

catcattata tggcagataa tatacaggat gtgtatttta ggacaatata ccttgaatca 780

ctagttgata tgtcaatgac taattaaaag gggttgtcag tgttacacat cattggttaa 840

atttatagca cagtgtacct cttccccctt ttttgataag agtcttctat tcccaaccaa 900

gatcgttata tgattagctc ttgtgtttct ttgattccaa atttcttcac ttgttatttc 960

agactactga agctcttcaa aaggaaaaat gtatttaatt taataatgta acacaacaag 1020

tttggatgtg tttaacttta taaa 1044

<210> 5
<211> 432

<212> DNA
<213> Homo sapien

<400> 5
aaaaaaaaaa aagagcaaca tctgtataaa gaaaagaaaa tatttttgat tatctcaaag 60

ctaacttttt ctggttccct caggaactag ggtcttatgc tgggaatatg gatttatgtt 120

tctgtatgca tttatgtata tctttcatct gtataatgag tgtatgtatc tgttatctct 180

atataaactc ctcctatttg ttatttttctt tttctttcct ttttttggtt ttttaacttt 240

tcagaaaatg aagcactaga cagggactta ggggactggc ctagggacag agagattccc 300

attttggcat ttttaccttc caattaaagg taataaaaga gtagcattta gcaaagaggg 360

gatatttaag gatctgatac cagagagacc ctaaactttc atcttgggta ccccaacccc 420

ttctaggtga aa 432

<210> 6
<211> 573
<212> DNA
<213> Homo sapien

<400> 6
aaaaaaaaaa aagagcaaca tctgtataaa gaaaagaaaa tatttttgat tatctcaaag 60

ctaacttttt ctgggttccc tcaggaacta gggtcttatg ctgggaatat ggatttatgt 120

ttctgtatgc atttatgtat atctttcatc tgtataatga gtgtatgtat ctgttatctc 180

tatataaact cctcctattt gttatttttct ttttctttcc ttttttttggt tttttaactt 240

ttcagaaaat gaagcactag acagggactt aggggactgg cctagggaca gagagattcc 300

cattttggca tttttacctt ccaataaggg taataaaaga gtagcattta gcaaagaggg 360

gatatttaag gatctgatac cagagagacc ctaaactttc atcttgggta ccccaacccc 420

ttctaggtga aagatggtca agcatagtga ttaaaaagta tggtttattt cccagattca 480

taatttactg gccataatcc tgagcaagtc catttatatt tctggtgcct cagttatcta 540

taacatgggg ctaatcataa tacctgagag gac 573

<210> 7
<211> 581
<212> DNA
<213> Homo sapien

<400> 7
aaaaaaaaaa aagagcaaca tctggtataa agaaaagaaa atatttttgg attatctcaa 60

agctaacttt ttctgggttc cctcaggaac tagggtctta tgctggggaa tatggattta 120

tgtattctgg tatgcattta tgtatatctt tcatctggta taatggagtg gtatgtatct 180

ggttatctct atataaactc ctcctattgg ttatttcctt tttctttcct tttttggttt 240

tttaactttc cagaaaatga agcactagac agggacttag gggactgggc ctagggacag 300

agagattccc attttggcat ttttaccttc caataagggt aataaaagag tagcatttag 360

caaagagggg atatttagga tctgatacca gagagaccct aaactttcat cttgggtacc 420

ccaacccctt ctaggtgaaa gatggtcaag catagtgatt aaaaagtatg gtttatttcc 480

cagattcata atttactggc cataatcctg agcaagtcca tttatatttc tggtgcctca 540

gttatctata acatggggct aatcataata cctgagagga c 581

<210> 8
<211> 61
<212> DNA
<213> Homo sapien

<400> 8
ccatcttaat ttcttgacag agttttcatg tattggtata gtttccaaag ttcctcttgg 60

t 61

<210> 9
<211> 725
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (35)..(35)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (421)..(421)
<223> n=a, c, g or t

<400> 9
cccttcatgt accgggactc aacattccac tctcnggtta gacagattat ctaaatagaa 60

aatcgacaaa aaaacattgg atttaaactg aactctagac caaatggacc taacagacat 120

ttacagaaca gtttatctaa cacctacaga ctatacattc ttctcatcag catgtggaac 180

attctccagg atagaccata tgttaagcca caaaacaagt ctcaacaaat ttttaaaaat 240

tggaatcata caaagtatct tctcagacca caagagaata aaactagaaa tccataccaa 300

gaggaacttt ggaaactata caaatacatg gaagttaaac atgctcttga ataactattg 360

ggtcaatgaa gaaattaaga tggaaattta aaaatttctt aaaacaatag aaatggaaac 420

ncaacatacc aaaacatgtg ggatacagca agagctatgg caagagggaa tcttacagta 480

ataaatgcct acatcaaaaa agtggtagaa atattttaaa taaaaaattt atcaatgcac 540

ctcaaggaac tagaaaagca aaaacaaacc aatccccaaa gtagcagaca gaaagaaata 600

atgaagagca gagcagacca aaatgaaaca gacaaaaaac aatacaaagg gtcaatgaaa 660

tgaaaagttg tttcttcaaa aagataaaca aaattgataa cccactagca taattaacca 720

agaaa 725

<210> 10
<211> 664
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (450)..(526)
<223> n=a, c, g or t

<400> 10
tgatgcttaa gaagtaaatt taggttattt ttataattat accattattt aagtgtatta 60

aatgctaatt aaatttgttt tgcttgtatt tgttcatatt gataaaactt ggcttaagtt 120

tattgcagaa agatagtcct tgtattacct tgataatata ctcagatttt atgtgtttca 180

tatacgattt tcttctatat ggtttgtttc tgtgatgtaa gttattataa ctgggtatac 240

actttacttt tcattcttgt tattagttct ttcataaaat gtctacgtat atacattaga 300

gaatatcaaa aatagctttc agtttggcac ttaaatttat atgtttctat tgcaaatctt 360

tcccaattct gttactaaaa tataaccaaa tgttaagaat tcaagtattt tagaattact 420

tttctttgta agtaaattac atatccatgn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnaaaa acagtgtctt 540

tacataggaa atcaaattat ttaaaaaaat gatgtcattt gatgctttct gactaagaag 600

gccttagcag ttctcagttt gggtaaactt tagaccaagt ttcttccctg actctaggcc 660

cctg 664

<210> 11
<211> 726
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (447)..(523)
<223> n=a, c, g or t

<400> 11
tgatgcttaa gaagtaaatt taggttattt ttataattat accattattt aagtgtatta 60

aatgctaatt aaatttgttt tgcttgtatt tgttcatatt gaaaaacttg gctaaagttt 120

attgcagaaa gatagccttg tattaccttg ataatatact cagattttat gtgtttcata 180

tacgattttc ttctatatgg tttgtttctg tgatgtaagt tattataatg ggtaaacact 240

ttacttttca ttcttgttat tagttctttc ataaaatgtc tacgtatata cattagagaa 300

tatcaaaaat agctttcagt ttggcactta aatttatatg tttctattgc aaatctttcc 360

caattctgtt actaaaatat aaccaaatgt taagaattca agtattttag aattactttt 420

ctttgtaagt aaattacata tccatgnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnaaaaaca gtgtctttac 540

ataggaaatc aaattattta aaaaaatgat gtcatttgat gctttctgac taagaaggcc 600

ttagcagttc tcagtttggg taaactttag acaagtttct tcctgactct aggcccctgg 660

aatccctttc ttagatttac ttagaaaact tgttattgta attttttcg cctgtccttt 720

gggatg 726

<210> 12
<211> 867
<212> DNA
<213> Homo sapien

<400> 12
cagcttctct gtctttctca ccaggctctc aggtatgtgc caaggtgccc atcaagggat 60

ccccacccac catgctttct agacttcagt catttctgaa ccaacttcac caatttctgt 120

gaactacttg gactattatt tctttccaat tttctcttaa atcaatcatg taccaactca 180

ggctggttac tctctttcaa atacatatga aaggagccat cccattgaaa ttgtttactg 240

atgtgctgtg taaacgttgg tccacaaaag agacccacca gatgggagga gaagccgacc 300

caggccacgc ccagagagag cagctgggga cctgggccgg gattgggaag aaagtcgtcc 360

aaagagcaag gccaggaccc gcactgtcgg gtgggagtgg ggggctctgt ctctctgccc 420

tgccaccagg cctccctccc atgacggtcc acccctgccg gaaccacctc cgccctccca 480

cccccacccc tgctcccctc ggctcttacc acctgccctt ccctcctagt tctctctctc 540

ctacgaaggc ttctctctgc ttcctggaag cctctattac tggcagctgc cccgggcctt 600

cctgggggac aaggtaacaa ggatttgggg ggattatagg ggtgtcatag aatcccaaaa 660

tatcagaggg ccctttgtca aggcccttta tgacacaaat ggggagaccg aggctcacgg 720

tgggtagaga cttgcctggg gtctcatgtt caggtcagag cacagctgag actgaactca 780

gctctgcccc tgtccttcag cgggacctga cccctgaccc tggcgcctga cccctgtcag 840

aggagctgtc tcgcctggga gggtttc 867

<210> 13
<211> 1300
<212> DNA
<213> Homo sapien

<400> 13
tagcagaggt agttaccttg cgtgctcggg atactatgag ttcgccatca tcccgccata 60

gcacctaacc atccggatat cccgctagct caggagtaca agaggcatgt ggtacaaggg 120

ccagagtgcc aggtatcagc acttgtgagc agacagtgca gagcgggtgg ctggctgggc 180

ccttggggag gtgaagcgtc acggacgtcc tttcctgtcc cttctctgct ctctgtctgc 240

ccgctcttcg ggctcctggt cccccaggtg gacgaggctc agagccggat ggatgctgag 300

atctggcagc tcctgtccag ctttgctgcc ctaccccaac cccctcccca ggggctctct 360

ccgcatcccc agcctgcagc tgctctgcga gcagcacctc ctccttcttc ttcctcctcc 420

tcctcctctt cctcagcttc tctgtctttc tcaccaggct ctcaggtatg tgccaaggtg 480

cccatcaagg gatccccacc caccatgctt tctagacttc agtcatttct gaaccaactt 540

caccaatttc tgtgaactac ttggactatt atttctttcc aattttctct taaatcaatc 600

atgtaccaac tcaggctggt tactctcttt caaatacata tgaaaggagc catcccattg 660

aaattgttta ctgatgtgct gtgtaaacgt tggtccacaa aagagaccca ccagatggga 720

ggagaagccg acccaggcca cgcccagaga gagcagctgg ggacctgggc cgggattggg 780

aagaaagtcg tccaaagagc aaggccagga cccgcactgt cgggtgggag tgggggctc 840

tgtctctctg ccctgccacc aggcctccct cccatgacgg tccacccctg ccggaaccac 900

ctccgccctc ccacccccac ccctgctccc ctcggctctt accacctgcc cttccctcct 960

agttctctct ctcctacgaa ggcttctctc tgcttcctgg aagcctctat tactggcagc 1020

tgccccgggc cttcctgggg gacaaggtaa caaggatttg gggggattat aggggtgtca 1080

tagaatccca aaatatcaga gggccctttg tcaaggccct ttatgacaca aatggggaga 1140

ccgaggctca cggtgggtag agacttgcct ggggtctcat gttcaggtca gagcacagct 1200

gagactgaac tcagctctgc ccctgtcctt cagcgggacc tgacccctga ccctggcgcc 1260

tgacccctgt cagaggagct gtctcgcctg ggagggtttc 1300

<210> 14
<211> 183
<212> DNA
<213> Homo sapien

<400> 14
gttcccttct gaagtttcag gtaggtgtga atcttccggg acactgtccc acccggtaca 60

ggtgggcagg attgttcctc ctcattccac cccatcagca cgtgctaccc catcagcatg 120

tgccacttgc acgtgccatg tgcaagagca tttgaggtct cagagaagat cccaaagaat 180

aga 183

<210> 15
<211> 2721
<212> DNA
<213> Homo sapien

<400> 15
atgcccatga aggactgccc gagcgttccc cagccagcct actccctggg cagggctcac 60

gggaagccca cgctgacccg ggaagcagca tcctgcagaa cagctcaggc ccctctgggt 120

ccgggctctc ctccttccca gccccagtcc cagggacttc cgctgccacc attagaggag 180

acagttcaca gcagctctgc cccaaagctc cctggagagg agcaggacat aggaccctca 240

gcagcccagg aaatggcccc ttgggacctt caggaggctc gtcgccgcgg ccccccgagc 300

ccgaccgccg ccgccaccac cacccagcgc ccgggcgggc ctcgcgcgcc tcgggcgcgg 360

ctccgcagtg agcccaccaa gaaggaagcg gaggctggcc ccagatctca aagggagtgg 420

acagggctct ccacactccc acataaattc acccccaaca caacaggcca cactgtggaa 480

ttggggccac gtagtggggg tgccctggtg gtacctagtg gcaatcacac tgatgacgat 540

gatgaggatg atgatggtaa aggtggcagc aacaatgatg acagtgacaa ggatgacaac 600

agtagtgagg aaccaatagg gagcgaactc atccattact gtgaggacgg caccaagcaa 660

gctgttcatg agagattgcc ccatgaccca gacacctccc atcaggccca gtgttctgaa 720

tcaaatttca acatgaggtt tggaagggac aaatatccaa actatagcaa taagaatgat 780

gagaacaatg atgatgatga agatgatggt gacaactctg tcccaggccc tgtcctggag 840

gctggtggct caatgcctgt ttggcagagg aggacacaga acctgggggа ccgagcccca 900

gcacctcaga ctcgggaaat gacctgcttg agccagtcct gtgcctgccg cctttgtgct 960

gtccttggag ggaggcagaa gcaggatgac aatgagggca agttcaggga cactgtggga 1020

gatgagaaaa cttgctgtgt gaaaactctc cacgcctgca gaggtgccga catggggctt 1080

aagatgtcct gcctgaaagg acaccaggca ttggatttag agcccctccg cccccaaatc 1140

caggatgatt tcatctcaag atccttaact aattacatat gcaaagaccc tatttccaaa 1200

taaggttccc ttctgaagtt tcaggtaggt gtgaatcttc cgggacactg tcccacccgg 1260

tacaggtggg caggattgtt cctcctcatt ccaccccatc agcacgtgct accccatcag 1320

catgtgccac ttgcacgtgc catgtgcaag agcatttgag gtctcagaga agatcccaaa 1380

gaatagacag cgcccttgtt agcacctggg ctgacaggct tctttgggag agatgacaac 1440

gaatagccat gccgggaact tgccgtgtgg cccctctccc tttccccacc tgtgatgtgc 1500

agggccactg accccaggtg tcctccctgc tccagtgatc atggacagca tggggtcatg 1560

ggcgtacaca caggtgctga taccaggggt cagtatttaa catacttgct ttacagatgg 1620

gaacagggag gctcaggggg acactctcaa aattacacag cttttaacag gtggcagaat 1680

tggggttcag acccagatct gggttcaagt cactcatggt gtgattgcgg cagttccttc 1740

ccgcatctgg gccttgccat ctctctctcc gagtggacat ggagaggacg ggggcccagc 1800

agctggatgg ctgcagggat caagtcttct ctggggctgg cacgtagaag agcatgtggc 1860

tggtggacgg gcatgcctgg ctcctcacct ggcagtctcc tgccctctaa ccggctgtct 1920

cttgttcccc tagtgccctc ggctagcatg acccgcctga tgcggtcccg cacagcctct 1980

ggttccagcg tcacttctct ggatggcacc cgcagccgct cccacaccag cgagggcacc 2040

cgaagccgct cccacaccag cgagggcacc cgcagccgct cgcacaccag cgaggggcc 2100

cacctggaca tcacccccaa ctcgggtgct gctgggaaca gcgccgggcc caagtccatg 2160

gaggtctcct gctaggcggc ctgcccagct gccgcccccg gactctgatc tctgtagtgg 2220

ccccctcctc cccggcccct tttcgccccc tgcctgccat actgcgccta actcggtatt 2280

aatccaaagc ttattttgta agagtgagct ctggtggaga caaatgaggt ctattacgtg 2340

ggtgccctct ccaaaggcgg ggtggcggtg gaccaaagga aggaagcaag catctccgca 2400

tcgcatcctc ttccattaac cagtggccgg ttgccactct cctcccctcc ctcagagaca 2460

ccaaactgcc aaaaacaaga cgcgtagcag cacacacttc acaaagccaa gcctaggccg 2520

ccctgagcat cctggttcaa acgggtgcct ggtcagaagg ccagccgccc acttcccgtt 2580

tcctctttaa ctgaggagaa gctgatccag tttccggaaa caaaatcctt ttctcatttg 2640

gggaggggg taatagtgac atgcaggcac ctcttttaaa caggcaaaac aggaaggggg 2700

aaaaggtggg attcatgtcg a 2721

<210> 16
<211> 923
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (558)..(660)
<223> n=a, c, g or t

<400> 16
tgaattttga gattacacat ttcttcttaa acagcattga gagggttgga gcagtgctgt 60

gtgactgctt ggtgtcgctt ccttggaatg atgtgaggtg tcacacagca gctctcagat 120

cccctccagg aattacatga tgcccagaga gagcattctg gacattattt aattcctgga 180

ggggatcaca ctgattgttt gaggttctta agttttgaag ccttttaagt gcagagtcca 240

gttctggtgc tgagtgttgt aacttggacc acactcccac atgacagctc tcagagttgt 300

tctgtttttt cgtgttttgt gtctttgccg tgataaaaat gtagcagtgt gtgaccagtc 360

cccagtgtta gaactgtggt cagtgttcat ggggctgtag cactgccagc ctgaaccatg 420

tgacatagat gcacacactt gcacggacta acgttttcta catgactttg gaaattgcat 480

cccgtaaaat gcatacaact gaataatctt tccaaataag agtgactgtt tttattaact 540

agacagtagt ctcagacnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660

cagtgctggg gctgctggcc cggggccact ttttgagaat cgctcaagga ccagggtgtt 720

tgcagcttgc tgtttggctg actcctaaca gtgactgtac tgaaaggttt tgaatggcac 780

gtgttcaaac aaggcagttc gcaagagtgg taggaagaga cgttgaggat tcgagttgtt 840

ctttcgtttc gtaaaagggg gtttgaggga aggttgtgta gctcttttaa aaagagttaa 900

tggcggccgg tgcagtggct gat 923

<210> 17
<211> 1353
<212> DNA
<213> Homo sapien

<400> 17
agagatggcc cagtccctta gtggtagggc tcaccctctt gtccgcttgg tatccctgtg 60

ggagtctctg tcgtggatgg agacttctct tcatggctgt gagagaggtg caggcctgag 120

gcaagaggag tgacgtggct tttgtaacga gcttctcaca actgttttcc agcccatttc 180

tggagaggga gttttaggag ccccacaaat gttcattcag aaaactccct ggaagatccc 240

aaggatttga agactggact tctggaagtt tatggggact tagcagcaaa ttgcttacaa 300

tgaaacaaat gaactcttat ttgggggaaa tggattttaa attgcctttg gaatagtgat 360

cttattttaa aatgtttaca gatttccaga accaaaatga tagattatta tctgcctctc 420

gatggatttt gagattacac atttcttctt aaacagcatt gagagggttg gagcagtgct 480

gtgtgactgc ttggtgtcgc ttccttggaa tgatgtgagg tgtcacacag cagctctcag 540

atcccctcca ggaattacat gatgcccaga gagagcattc tggacattat ttaattcctg 600

gaggggatca cactgattgt ttgaggttct taagttttga agccttttaa gtgcagagtc 660

cagttctggt gctgagtgtt gtaacttgga ccacactccc acatgacagc tctcagagtt 720

gttctgtttt ttcgtgtttt gtgtctttgc cgtgataaaa atgtagcagt gtgtgaccag 780

tccccagtgt tagaactgtg gtcagtgttc atggggctgt agcactgcca gcctgaacca 840

tgtgacatag atgcacacac ttgcacggac taacgttttc tacatgactt tggaaattgc 900

atcccgtaaa atgcatacaa ctgaataatc tttccaaata agagtgactg tttttattaa 960

ctagacagta gtctcagaca tcttttggag ggtttgttca gacagagact gtgaggcccc 1020

acccctgagt ttccagttcc tgagtccctg atctcagaat ttgcatttca cacaagttcc 1080

cacagtgctg gggctgctgg cccggggcca ctttttgaga atcgctcaag gaccagggtg 1140

tttgcagctt gctgtttggc tgactcctaa cagtgactgt actgaaaggt tttgaatgcc 1200

acgtgttcaa acaaggcagt tcgcaagagt ggtaggaaga gacgttgagg attcgagttg 1260

ttctttcgtt tcgtaaaagg gggtttgagg gaaggttgtg tagctctttt aaaaagagtt 1320

aatggcggcc ggtgcagtgg ctgatgcctg tgg 1353

<210> 18
<211> 74
<212> DNA
<213> Homo sapien

<400> 18
tgcgaccaaa ctgttgggag ggctgtgctt cctctggggg ctccagggag gatctatttg 60

ttggcccttc cagt 74

<210> 19
<211> 160
<212> DNA
<213> Homo sapien

<400> 19
tcctctgggg gctccaggga ggatctattt gttggccctt ccagtgctgt gggtgccagc 60

gttccacact tgtggatgcg ccgcctcaac ctctgcccat cttcatgtgt ccatctcctt 120

tgtgtctgcg tctttacctc ttcttcttgt ctgtgttgcc 160

<210> 20
<211> 746
<212> DNA
<213> Homo sapien

<400> 20
aagcgggggg gaacctggtc tcaggaatcc gtgccggggc gtatccttat tcacccccgt 60

gacattacac gctggggacc gaactcagtc cgagatgtag actaggcaat aacgctaatc 120

taatcccggt acgattaacc ccactcagcc cgccctggct taatgtccgc tggtggtgtt 180

tggagacctc gagcatttaa atgaagcgct cacaaacaag agcacaggtt gctttgggat 240

cataaaagag caggagagaa aggcttctgg gggctctcgg aagatggatg tcaacgcaga 300

gttttcaagg ctgagtacgg gttagccagg agaaagaaga gaaggtggag agagcaacac 360

ggcagataca aggaaggaag tgctggcttg ggaactgcag gtgctgggta gccagagctg 420

ggaaggagtg agcagcagca tggtgtgggc attctggtgt ggggaaacca gatcatgaaa 480

tgccatttta aggagtttgg attttatcct gaaaacaatc agcaaatcaa gcatatgcaa 540

atcaagaagt gatttgatcg aatctgatga gaaagccact tttgacaatg tggacaggag 600

atggggcaga tataatacta tattgaggta acggtggaag gctagatagg agactggtca 660

tccttatggg ggataaccaa gtaatgctaa gaagtgaagc gaaccagttg aaagaaacgt 720

gggcctaggg ttgccagata ctctgg 746

<210> 21
<211> 786
<212> DNA
<213> Homo sapien

<400> 21
aagcgggggg gaacctggtc tcaggaatcc gtgccggggc gtatccttat tcacccccgt 60

gacattacac gctggggacc gaactcagtc cgagatgtag actaggcaat aacgctaatc 120

taatcccggt acgattaacc ccactcagcc cgccctggct taatgtccgc tggtggtgtt 180

tggagacctc gagcatttaa atgaagcgct cacaaacaag agcacaggtt gctttgggat 240

cataaaagag caggagagaa aggcttctgg gggctctcgg aagatggatg tcaacgcaga 300

gttttcaagg ctgagtacgg gttagccagg agaaagaaga gaaggtggag agagcaacac 360

ggcagataca aggaaggaag tgctggcttg ggaactgcag gtgctgggta gccagagctg 420

ggaaggagtg agcagcagca tggtgtgggc attctggtgt ggggaaacca gatcatgaaa 480

tgccatttta aggagtttgg attttatcct gaaaacaatc agcaaatcaa gcatatgcaa 540

atcaagaagt gatttgatcg aatctgatga gaaagccact tttgacaatg tggacaggag 600

atggggcaga tataatacta tattgaggta acggtggaag gctagatagg agactggtca 660

tccttatggg ggataaccaa gtaatgctaa gaagtgaagc gaaccagttg aaagaaacgt 720

gggcctaggg ttgccagata ctctggtttc tctttattct ttttcaagac ggggtctctc 780

tctgtc 786

<210> 22
<211> 391
<212> DNA
<213> Homo sapien

<400> 22
agcaggtatt tagtaggcac tcaataagct gatgtctacc tgttttcttg cttctcatgg 60

taacagttgt ttattgtgta gtttcagcat tataagtttg ctcttagcct caaaggaatc 120

atttgtggga atccttcctt cttcatctta tcttttgtgt aaaataactt gagtgataca 180

agcatacatt tctggggaaa tggaaatatt atttgctact gcaataataa ccaataaata 240

agtattttgc cagtcgtttt tggcatgtat gccttatatt tgtgtgcctt taaaaaaaaa 300

gcgtgtgtgt tttaaacaaa gcttactaat ttagatatgc caatttggta acttcctgcc 360

agagtaagag tttttatgtt ttccttctga g 391

<210> 23
<211> 566
<212> DNA
<213> Homo sapien

<400> 23
agcaggtatt tagtaggcac tcaataagct gatgtctacc tgttttcttg cttctcatgg 60

taacagttgt ttattgtgta gtttcagcat tataagtttg ctcttagcct caaaggaatc 120

atttgtggga atccttcctt cttcatctta tcttttgtgt aaaataactt gagtgataca 180

agcatacatt tctggggaaa tggaaatatt atttgctact gcaataataa ccaataaata 240

agtattttgc cagtcgtttt tggcatgtat gccttatatt tgtgtgcctt taaaaaaaaa 300

gcgtgtgtgt tttaaacaaa gcttactaat ttagatatgc ccatttggta acttcctgcc 360

agagtaagag tttttatgtt ttccttctga gacacacctt agtataactt tattttagtt 420

ttctgggcca ttgccatttg gcataacttc aaactagatg tgatggaccc acataaatac 480

ttttaagatt taaaattttt tttatggtgg ggggatatga aactttcaaa accagctgag 540

gtgtcaggtc tggaatttta atttgg 566

<210> 24
<211> 123

<212> DNA
<213> Homo sapien

<400> 24
cagatggaga gattcaagga acgtgggagg gggcacggag ctttcatgcc ctctccaggc 60

acgctaccct ccaggaacct ccaaacggtt cagctgtctg gaagctctct gaaccttgtc 120

att 123

<210> 25
<211> 505
<212> DNA
<213> Homo sapien

<400> 25
gaattcgcag ctggcagtga attgaaggtt cacaggactc cctccttgag tttggttaac 60

ttgctagagc gggtcagaaa acacagaaat gctacttaca tttgctagtt tattaataaa 120

ggatatcata aaggatacag aagaacagcc agatggagag attcaaggaa cgtgggaggg 180

ggcacggagc tttcatgccc tctccaggca cgctaccctc caggaacctc caaacggttc 240

agctgtctgg aagctctctg aaccttgtca ttttggagtt ttatggaagc ttttttatgc 300

agtcatgatt gattacatca ccagcccttg gtgatcagct taaccttcag cttcggtctc 360

ctccctggag ggatgggtgt cccaccccgc taatcctgcc ttggtctttc tggtgaccag 420

ccccttttct gaagccatct aagggccccc agccgccact catctcatta gcaaacaaaa 480

gataccacgg ctcaaaaaaa aaaaa 505

<210> 26
<211> 381
<212> DNA
<213> Homo sapien

<400> 26
tctgtattca aaacaaaaat aaatgcagat aatacaataa tacagaagag tataaaatgc 60

aaagtgaaag gtcttcctaa ccagtttcaa tcactagtgg caatcctgtc aacaatacct 120

ggttttattt cttcaaagga gaggcattaa ttttataaaa catactttta ttttctgaaa 180

ttttcacatc tttcccttct tttacaaccc atggtgtcct ctttcttgta ttcttttttt 240

atttccctga agcaattttt ttaaaagatg catgaacagt aagcattctg atcctaacat 300

ctaaacatgt ctacagtgtg ccctcacact tacctattag ttggctgggt atattcaggt 360

tgaaaatctt ttttttttct t 381

<210> 27
<211> 4893

<212> DNA
<213> Homo sapien

<400> 27
atgaaggcag aaataaaggt gttctttgaa accaacgaga acaaagacac aacataccag 60

aatctctggg acacattcaa agcagtgtgt agagggaaat ttatagcact aaatgcccac 120

aagagaaagc aggaaagatc caaaattgac accctaacat cacaattaaa agaactagaa 180

aagcaagagc aaacacattc aaaagctagc agaaggcaag aaataactaa aatcagagca 240

gaactgaagg aaatacagac acaaaaaacc cttcaaaaaa tcaatgaatc caggagctgg 300

ttttttgaaa ggatcaacaa aattgataga tcgctagcaa gactaataaa gaaaaaaaga 360

gagaagaatc aaatagacac aataaaaaat gataaagggg atatcaccac tgatcccaca 420

gaaatacaaa ctaccatcag agaatactac aaacacctct atgcaaataa actagaaaat 480

ctagaagaaa tggataaatt cctcgacaca tacactctcc caagactaaa ccaggaagaa 540

gttgaatctc tgaatagacc aataacagga gctgaaattg tggcaataat caatagttta 600

ccaaccaaaa agagtccagg accagatgga ttcacagccg aattctacca gagctgggca 660

gagacacaac caaaaaaaga gaattttaga ccaatatcct tgatgaacat tgatgcaaaa 720

atcctcaata aaatactggc aaaacgaatc cagcagcaca tcaaaaagct tatccaccat 780

gatcaagtgg gcttcatccc tgggatgcaa ggctggttca atatacgcaa atcaataaat 840

gtaacacagc atataaacag agccaaagac aaaaaccaca tgattatctc aatagatgca 900

gaaaaagcct ttgacaaaat tcaacaaccc ttcatgctaa aaactctcaa taaattaggt 960

attgatggga cgtatttcaa aataataaga gctatctatg acaaccccac agccaatatc 1020

atactgaatg ggcaaaaact ggaagcattc cctttgaaaa ctggcacaag acagggatgc 1080

cctctctcac cactcctatt caacatagtg ttggaagttc tggccagggc aattaggcag 1140

gagaaggaaa taaagggtat tcaattagga aaagaggaag tcaaattgtc cctgtttgca 1200

gacaacatga ttgtatatct agaaaacccc attgtctcag cccaaaatct ccttaagctg 1260

ataagcaact tcagcaaagt ctcaggatac aaaatcaatg tacaaaaatc acaagcattc 1320

ttatacacca acaacagaca aacagagagc caaatcatga gtcaactccc attcacaatt 1380

gcttcaaaga gaataaaata cctaggaatc caacttacaa gggatgtgaa ggacctcttc 1440

aaggagaact acaaaccact gctcaaggaa ataaaagagg atacaaacaa atggaaaaac 1500

attccatgct caggggggaag gaagaatcaa tatcgtgaaa atggccatac tgcccaagaa 1560

ttggaaaaaa ctactttaaa gttcatatgg aaccaaaaaa gagctcacat tgccaagtca 1620

attctaaacc aaaagaacaa agctggaggc atcacactac ctgacttcaa actatactac 1680

aaggctacag taaccaaaac agcatggtac tggtaccaaa acagagatat agatcaatgg 1740

aacagaacag agccctcaga aataacgcag catatctaca gctatctgat ctttgacaaa 1800

cctgagaaaa acaagcaatg gggaaaggat tccctattta ataaatggtg ctgggaaaac 1860

tggctagcca tatgtagaaa gctgaaactg gatcccttcc ttacacctta tacaaaaatg 1920

aattcaagat ggattaaaga tttaaacgtt agacctaaaa ccataaaaac cctagaagaa 1980

aacctaggca ttaccattca ggacataggc atgggcaagg acttcatgtc caaaacacca 2040

aaagcaatgg caacaaaaga caaaattgac aaatgggacc tagttaaact aaagagcttc 2100

tgcacagcaa aagaaactac catcagagtg aacaggcaac ctacaaaatg ggagaaaatt 2160

ttcgcaacct actcatctga caaagggcta atatccagaa tctacaatga actcaaacaa 2220

atttacaaga aaaaaacaaa caaccccatc aaaaagtggg caaaggacat gaacagacac 2280

ttctcaaaag aagacattta tgcagccaaa aaacacatga aaaaatgctc atcatcactg 2340

gccatcagag aaatgcaaat caaaaccact atgagatacc atctcacacc agttagaatg 2400

gcaatcatta aaaagtcagg aaacaacagg tgctggagag gatgtggaga aacaggaacg 2460

cttttacact gttggtggga ctgtaaacta gctcaaccat tgtggaagtc agtgtggcga 2520

ttcctcaggg atctagaact agaaatacca tttgacccag ccatcccatt actgggtata 2580

tacccaaagg actataaatc atgctgctat aaagacacat gcacacgtat gtttattgcg 2640

gcattattca caatagcaaa gacttggaac caacccaaat gtccaacaat tatagactgg 2700

attaagaaaa tgtggcacat atacaccatg gaatactatg cagccataaa aaatgatgag 2760

ttcgtgtcct ttgtagggac atggatgaaa ttggaaatca tcattctcag taaactatca 2820

caagaacaaa aaaccacaca ccgcatattc tcactcatag gtgggaattg aacaatgaga 2880

tcacacggac acgggggggg gaatatcaca ctctggggac tgttgtgggg tgggggggagc 2940

ggggagggat agcattggga gatataccta atgctagatg atgagttagt gggtgcagcg 3000

caccagcatg gcacatgtat acatatgtaa ctaacctgca cagtgtgcac atgtacccta 3060

aaacttaaag tataataaaa aaaaaaaaga aaaaaaaaga ttttcaacct gaatataccc 3120

agccaactaa taggtaagtg tgagggcaca ctgtagacat gtttagatgt taggatcaga 3180

atgcttactg ttcatgcatc ttttaaaaaa attgcttcag ggaaataaaa aaagaataca 3240

agaaagagga caccatgggt tgtaaaagaa gggaaagatg tgaaaatttc agaaaataaa 3300

agtatgtttt ataaaattaa tgcctctcct ttgaagaaat aaaaccaggt attgttgaca 3360

ggattgccac tagtgattga aactggttag gaagaccttt cactttgcat tttatactct 3420

tctgtattat tgtattatct gcatttattt ttgttttgaa tacagattac ttgccgtctt 3480

ctttttttt ttgagacaga gtgtcagctc tagtcaccca ggctggagtg cagtggtgca 3540

atcttggctc actgcaacct cagcctcctg ccttagcctc ccaagcagct ggaactacag 3600

gtgtgtgcca tcatatcctg ccaaaaacac catttttctc agaattagaa aagaaaatcc 3660

taaattcaaa taaaaccaaa aatcctgaat agcaaaagca gtcctgagca aacaaaagaa 3720

atctgggggc atcacattag ctatctttaa gttatactgc aaggctacag taatcaacac 3780

agtatgacaa ctggtataaa aatagacaca tataccaatg aaacagaata gagaacccag 3840

atataaagcc aaataactac aaccaactga tctttgacaa agcagactga aacatacaat 3900

gggggaaagg acacactatt cattcagtgg tgctggaaaa ttggatagcc atacacagaa 3960

gaatgaaact ggttccctat ctctcaccgt ctacaaaaat ttactcaaga tggattaaag 4020

acttaaccct ttccccattt gctctgagaa tactcgccag tggcacttgc ggctgcatca 4080

tttaccccaa agtaaatttg ccacaaaata gcaccctatg attattatgt ttgcattgct 4140

ctagtatatc aactttggaa acaaaagaca ttatcctatt tatagcactc catttttagt 4200

agcggtattt ccacttacaa aataaaatct cagccactga aaatgtcaaa tcttagaaaa 4260

cagcattcct acacatgatg ctaacattgt tcatgaaaag ttgttggcca aggattagtt 4320

tcatgaattc agtttttctg aaatagatta ttctgatgat tcagacaatt ctaatgttag 4380

ttctgttcag aaataactcc aagaacagtt tttatatttt attttcacat tgactatcag 4440

tcagatttgc ttcagcctca aagaacgtgt ttatgtaaaa ttaaatgagc gctggcagca 4500

agccacacct ttttttgaaa acaggaaaag ggtcaaatgt aagacctgaa accataacaa 4560

ttttagaaaa aaccctagga atatacttaa ccaaagaggt gaaagatctc tacacataga 4620

actgcaaaac actgatgaaa gaaaccatag atgatacaaa caaatagaaa acctcctatg 4680

ttcatgaatt aaaagaatca atattgtgaa aatgaccata ctgcccaaaa caatctacag 4740

attcagtaga gttcctatca aaataccacc aatgcctgcc tacctttctt tctttctttc 4800

tttctttctt tctttctttc tttctttctt tctttctttc ttttttcttc ttttcttttc 4860

ctttttcttt ctttttttct ctctcttttt ctt 4893

<210> 28
<211> 548
<212> DNA
<213> Homo sapien

<400> 28
tactgccttt ttcttttagt ctatccatta cagacatgaa gtgaaaggta tgtctctttt 60

atttctaaag atggtgaaag tgaaacccag aaagggtaag tcgcaaggat tttctcagga 120

ggttcaagtt tcgagtttag ggagacccaa aggctagaac ccagatatcc cagattttat 180

tctttcttct cagtcatgtt gcaatttgct ccacacttgt ccccacctgg ggttgtgggt 240

gctgtctttg acttaaaaga tatctcttct taatgtcacg tgctacagga tattgcttga 300

aagacgtaac aggcaactgg atggctccat gcttgcttag tcagtcaaaa atccgtgaaa 360

cacttcttta ggaaaaaggg atagtgactg ggagtaatga tgaagcagtg aaataaagag 420

agggaagagg aagttgcctt gagaagtaat gatcataact aggtgttatt gggataggaa 480

atgtaattaa attaggggca aggggttgca gagctgagtt aactgcagtg attaagaaaa 540

aaaatcta 548

<210> 29
<211> 584
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (14)..(15)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (31)..(31)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (54)..(54)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (64)..(64)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (71)..(71)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (353)..(353)
<223> n=a, c, g or t

<400> 29
atccatatgc attnntattc ttattcatat ncgtgtggta ggaacagatg tttnaagtta 60

acanacacat ntcgtatgct ttgttttgaa tttagaagat gcagttgagc ttggaagcca 120

tattaatttg ctcgaactat gttacgtttt atcatatatc tcaattttct ggtcacacca 180

tacacttccc tcacttttc ttaagtttgt gacattttca caccaaattg tcttacaact 240

tgatattttt atttattcta tttctctgtt tataactaca aagtacatac atatgtttat 300

tttctatgtg atacatttat atatgcatgt gtatatatgt ataaatcccc atnatagaac 360

tgtcactaat ttatgacacc ttatggtatt atcatgttat agtttagtta cttttagaag 420

ttctctgctt accaagggaa agataatata taaatatcaa atgacaattg agttaagcca 480

gcttatgttt ttctgaaatt tcagttacaa atgtctgaag aaaagttgac tttgaaaatt 540

ttatgtggat gacattttgt ttctgtggac acttaaaacc ataa 584

<210> 30
<211> 738
<212> DNA
<213> Homo sapien

<400> 30
gcagctattt agcctgggac atgtcaaatg tggtacatgg agacatcgac attggtggct 60

gatgtcatca caatgcactg agggttattt gtgctaaata aggcaagacc cacggcaggg 120

ggccagggca ctgagtggac aggtggatgc ctgagcctgg ccgccagagc atgggaccag 180

ccccctgggg aggcgaaggc agcaacagcc agtatgtggt tcatgaagtg ccgggaagac 240

tgctgcccct ccctcaggga ccaaaaactc ctggaggtcc acctccagac tcctctttgt 300

aaaaacccac attcccggtt cacacacgag tccctggcac ctccatgaca tcccatcact 360

ctgtcttctt tttaattgac agaaggagac cactgcccca gcacttgccc cctaacaagc 420

cattaacctc cagttgtttg gctggaaaat gggaccttga tcccagagag aactgacttt 480

gtgtgaatac tcctggtctg tcctccttat gcaggcagcg ctgggatcga agtggagacc 540

cccgcagtgg gtgaacatcg cagcatccct gggagggttc agcatgttta tcttgggctg 600

aaggttgtaa ttatgattta ggggaatgcc actttataat gacttttct tcgtttcatg 660

taaattaagt tcctagtgtg cgtgggaatg catatgtcac tattcctaag gggagttgga 720

gaattcatta gttactgt 738

<210> 31
<211> 496
<212> DNA

<213> Homo sapien

<220>
<221> misc_feature
<222> (488)..(488)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (492)..(492)
<223> n=a, c, g or t

<400> 31
attatcttga ttgtggtgag aggttcttgg tataaatata tgcccgaacc aaattgtatg 60

ctttgaatat gtccatttat ttgcatatca gttatatttc aatgaagcta taaaagtaac 120

agacatccct ttccccgggc ccagggctca ccgtcatggc atttggggaa actcagagga 180

actggtcctg gcatggggtc tcattttcct cagagcagat ggcataagct tcatgaagtg 240

gcagctgtgc ccctgcaccc agaccagagc ttggcgccac agtggaacca cacacctcct 300

ttgccagagg ctgaatcact gttttatggc agagcagccg ccttgggcac tttcctcaac 360

tctcctgttt ttcacctgtg aactgggaca tcagtaatga tgggctcact agatcaaggg 420

agagaaagac tgtaaagaaa taaatgcata gaagcaatga ttaggtagga caggtgctgg 480

aaaagggntc ancaga 496

<210> 32
<211> 1583
<212> DNA
<213> Homo sapien

<400> 32
attatcttga ttgtggtgag aggttcttgg tataaatata tgcccgaacc aaattgtatg 60

ctttgaatat gtccatttat ttgcatatca gttatatttc aatgaagcta taaaagtaac 120

agacatccct ttccccgggc ccagggctca ccgtcatggc atttggggaa actcagagga 180

actggtcctg gcatggggtc tcattttcct cagagcagat ggcataagct tcatgaagtg 240

gcagctgtgc ccctgcaccc agaccagagc ttggcgccac agtggaacca cacacctcct 300

ttgccagagg ctgaatcact gttttatggc agagcagccg ccttgggcac tttcctcaac 360

tctcctgttt ttcacctgtg aactgggaca tcagtaatga tgggctcact agatcaaggg 420

agagaaagac tgtaaagaaa taaatgcata gaagcaatga ttaggtagga caggtgctgg 480

aaagggaatc aacagatgac aaggtcacgg gagaggccct tcagatgctg gtctccaagg 540

gtctgcaggg gacgctggaa ctgaaagtgg acagcagcgg gccgtgcagc ctggcctgcc 600

gtgtaaagga cctggggctc gggctgagct tgttgaggcc ccaggggct ggaaggatgc 660

ctgtggccct cggagagcac agtgtcaggc aacggaatcc cagagtgccc ttgctgctgg 720

gatcctcctt gccggagatc atctgctccc tgcccctgag ggagcagccc agctctctgc 780

tctctgcaca cgggagcacg gacgctgcca ctgtttggag gagggcgccg caggtctacg 840

ccccgcctcg gcccaccgac cgcctggccg tgccgccctt cgcccagcgg gagcgcttcc 900

accgcttcca gcccacctat ccgtacctgc agcacgagat cgacctgcca cccaccatct 960

cgctgtcaga cggggaggag cccccaccct accagggccc ctgcaccctc cagcttcggg 1020

accccgagca gcagctggaa ctgaaccggg agtcggtgcg cgcaccccca aacagaacca 1080

tcttcgacag tgacctgatg gatagtgcca ggctgggcgg cccctgcccc cccagcagta 1140

actcgggcat cagcgccacg tgctacggca gcggcgggcg catggagggg ccgccgccca 1200

cctacagcga ggtcatcggc cactacccgg ggtcctcctt ccagcaccag cagagcagtg 1260

ggccgccctc cttgctggag gggacccggc tccaccacac acacatcgcg cccctagaga 1320

gcgcagccat ctggagcaaa gagaaggata aacagaaagg acaccctctc tagggtcccc 1380

agggggccag ggctggggct gcgtaggtga aaaggcagaa cactccgcgc ttcttagaag 1440

aggagtgaga ggaaggcggg gggcgcacaa tcgcatgcgt gtggccctcc cctcccacct 1500

ccctgtgtat aaatatttac atgtgatgtc tggtctgaat gcacaagcta agagagcttg 1560

caaaaaaaaa aaaaaaagtt ttg 1583

<210> 33
<211> 284
<212> DNA
<213> Homo sapien

<400> 33
gacctggcca atcagtcata taaaaaccta ggtgttctct gtagatatga caggaagaat 60

aaggaagata gacaggaagt tcttcctatt tcctgcttat cctgtgctgc tttttcctgt 120

catctctttc tcagggctgt ctattctgga gcttgttgaa accattttgt ttggaagcaa 180

ttttaagaaa gaataatttt ttacataaat ctgtggtcca ggaatactct ggcaggtcta 240

aggcataggc attgttagtt gagaaggaaa gaaaatggat catg 284

<210> 34
<211> 429
<212> DNA
<213> Homo sapien

<220>

<221> misc_feature
<222> (418)..(418)
<223> n=a, c, g or t

<400> 34
taaaataagg tgaaaaatac tctgaacagt actgccaaag gattaatacg cttcaggaaa 60

tagcagtaga agctacttga tgtgaaagaa tggaggaaaa aaggacagat cattagtgaa 120

ctgtggtacg acttcaagca gactaatatg tgtattttga atcctcggag gagagtggag 180

aggaagtatg tttcaagaag caatgaccaa aagtttcaaa tttgatgaaa actatatact 240

cagagattta aagagttgaa tgaactctag gcagaagaaa cacgaaacaa actacataaa 300

agcacaatct tcaattccta caaactagta atagagaaga ttatgagaaa caattagagg 360

aattttaaaa gccacattaa gtacaggggg agcaaaaata aaaatgacag cagaggcngg 420

gtgcggtgg 429

<210> 35
<211> 612
<212> DNA
<213> Homo sapien

<400> 35
ccgccctttt ttttttcagt tacatttaat ttggggaata ggagataagt aacatttagg 60

gtccatattg gagcagcagc caggccaggt cagcaatgtg gctggggcac ccagttgccc 120

atgcctgccc ctctccgctc cttctctcat cttctctgca gtaaaagtca ggtgtttctc 180

aaactctaac ctgcacatga atcacacaga catctgttaa aatgcagact ctgagtcata 240

ggtctagagt tgggcctgag attctgcatt tccaacaagc ttctgagcaa taacagtgct 300

tgggaccacg gaacataccc tgagcagtga ggtgctacag aacccccagc atctgtctct 360

aacaaaccca aacagaatgg gcagagacag aggcatctag acttcaccag catatattca 420

aattctgact acagggtatt ggtttaccac agaaccagag aagaatagca acacaaatcc 480

tatacgatat cttacggtga tatctataga ccccaaaatg gttaggaggc aagtacaaaa 540

ggctctgaaa ccccttacca atagccgata caatgtaact aaaactacta aatactctta 600

taatattctg ga 612

<210> 36
<211> 856
<212> DNA
<213> Homo sapien

<400> 36
cccaaatgca acaacagaat actcagaaag ttgaagccag taaagtgcct gagtatatta 60

agaaagctgc caaaaaagca gcagaattta atagcaactt aaaccgggaa cgcatggaag 120

aaagaagagc ttattttgac ttgcagacac atgttatcca ggtacctcaa gggaagtaca 180

aagttttgcc aacagagcga acaaaggtca gttcttaccc agtggctctc atccccggac 240

agttccagga atattataag agtatttagt agttttagtt acattgtatc ggctattggt 300

aaggggtttc agagcctttt gtacttgcct cctaaccatt ttggggtcta tagatatcac 360

cgtaagatat cgtataggat ttgtgttgct attcttctct ggttctgtgg taaaccaata 420

ccctgtagtc agaatttgaa tatatgctgg tgaagtctag atgcctctgt ctctgcccat 480

tctgtttggg tttgttagag acagatgctg ggggttctgt agcacctcac tgctcagggt 540

atgttccgtg gtcccaagca ctgttattgc tcagaagctt gttggaaatg cagaatctca 600

ggcccaactc tagacctatg actcagagtc tgcattttaa cagatgtctg tgtgattcat 660

gtgcaggtta gagtttgaga aacacctgac ttttactgca gagaagatga gagaaggagc 720

ggagaggggc aggcatgggc aactgggtgc cccagccaca ttgctgacct ggcctggctg 780

ctgctcccat atggacccta aatgttactt atctcctatt ccccaaatta aatgtaactg 840

aaaaaaaaaa gggcgg 856

<210> 37
<211> 223
<212> DNA
<213> Homo sapien

<400> 37
gctagcctcc caatagtgct gggtattact agtatgtgag tcactgtggc tgggtgcctg 60

cctggggtga gatttaaatt ggccttgtaa gctaataaaa aatgaagtct attctgaggg 120

caatgtggag tcattgaaag gttcccagga aggaaaataa aaatccaaaa tcatgttata 180

gaaaggtaac tcagccgggc accgtggctc atgcctgtgg tcc 223

<210> 38
<211> 256
<212> DNA
<213> Homo sapien

<400> 38
ggtcaaataa atgctgttgt tgtaaaattt cagataatac aaagagttaa ccaataaaag 60

aaaaagtcat tcataatctt accactatta acattttgat gtatctatct gtatgtatgg 120

ctattctttt ttggtaaaac atgatcctag cctatctaat aatttaataa ttggatttta 180

aaaatttaac cattatatta tgggtaacct tacatgtcaa taaacaattc cacattgtca 240

tgctttaaat ggctgc 256

<210> 39
<211> 524
<212> DNA
<213> Homo sapien

<400> 39
catggctccc aagtgccgca gggtccctgt tttcacagtc ccatcctccc acgtttctct 60

tcagatggct tcatagagcc cagagctcct ctatacaaag tgtgatcatt cccagtggat 120

ttcttcgctc catagcttta tcattggaga tctggttgat cctgacgtag cgctcaagaa 180

agcactaaat ctgaaacgtt taaaaaccaa ttcacgtctc ctgagaacga tgttgtataa 240

cacaattttt ttctttcctt ttgatcccaa aagaagaaaa tcatgacaat attctttcat 300

aaatccatta ttacactatt actatgacag gatattgtat gtgggaaata atgaagccat 360

ttgccgtctc ttccccagtt tcctttagag tttctgtgct gagcaaacct ccctgcgaag 420

ttaatcagat gctggacttc ttcctcaat cacaccagtt gcccagggag agagacactt 480

acaggacact cccttctgcc tattcaagta gtgccccttc tact 524

<210> 40
<211> 536
<212> DNA
<213> Homo sapien

<400> 40
gctggacgag ggcatggctc ccaagtgccg cagggtccct gttttcacag tcccatcctc 60

ccacgtttct cttcagatgg cttcatagag cccagagctc ctctatacaa agtgtgatca 120

ttcccagtgg atttcttcgc tccatagctt tatcattgga gatctggttg atcctgacgt 180

agcgctcaag aaagcactaa atctgaaacg tttaaaaacc aattcacgtc tcctgagaac 240

gatgttgtat aacacaattt ttttctttcc ttttgatccc aaaagaagaa aatcatgaca 300

atattctttc ataaatccat tattacacta ttactatgac aggatattgt atgtgggaaa 360

taatgaagcc atttgccgtc tcttccccag tttcctttag agtttctgtg ctgagcaaac 420

ctccctgcga agttaatcag atgctggact tcttccctca atcacaccag ttgcccaggg 480

agagagacac ttacaggaca ctcccttctg cctattcaag tagtgcccct tctact 536

<210> 41
<211> 379
<212> DNA
<213> Homo sapien

<220>

<221> misc_feature
<222> (40)..(40)
<223> n=a, c, g or t

<400> 41
atttcaggag aagctcttgg ccgctgggtt ctcctggccn ccatgaactt caggaagtgg 60

gtgccataac agctgcctga actacagaat ctgggcactg gtgtagctct gtatgccctc 120

cgtgtcagat gctggagatg tcatttgcat tgccagagtt tgccaagggt gcacacagaa 180

agcagattga aaagcaccct cttggaacat ctctccaatg ccttctactc acaaagttta 240

acatcattaa cacgtgacaa agaagaacta tttaatgggc ccagatctat ttatgaagac 300

aatcaagtgg gagtttggag tggataaccc aaatttggat aactggtgaa taataaaatg 360

tatttatttc tgctggtgt 379

<210> 42
<211> 1215
<212> DNA
<213> Homo sapien

<400> 42
tttgggaaat ggatcaaatc acacttttag taaatgttat cactctatag cataagaaat 60

aattattttt tatttatata aaaggctata gtataaaata tatgtatagt aattaaatga 120

acacttgtga acctaatagc catatgaaga aaataacatt tctaatatct ttggatgccc 180

catgtactaa tgacagttat gcttttgcat tttcttgaat tttatgttta tttatctttc 240

ctctgtcatt atttataatt ttatcacaca tggctgtatc ctttacatgt tttggcatta 300

tgtatttttg aacttttttgt aaagacaatc ataccatgtg taattttcag ggacttgatt 360

tttttcattg acttttaagg gttcaaatat attatcactg tggctgtagt ttgccatatt 420

ttgctgatat agagcattca ttcacatgag ggtaggattc agggtccatc aagacagaga 480

aaacatacag taatgtgaat agggaaagtt aatatgaaga attattaatt gttacagcat 540

tggaacaatg aaatattgtc tagtaatatg taaagagaag tctcaagaat atgtgatgag 600

cagatgtaag gaattgctct tgtctccatg gtgaatttgg agcagccaat gaagagtccc 660

ctcacattgt ggcctcgctc aaagttaaga agtcgctgta gtgttgccct tgaagaatct 720

gcttcaaatt gacacttcag aactccccag aaacttgtct tctgggccaa tgtgtaaagc 780

tgtttatgaa gaaatgtcaa gccagagggg ctctactaca aatttggcaa aggacaattt 840

caggagaagc tcttggccgc tgggttctcc tggccaccat gaacttcagg aagtgggtgc 900

catagcagca gcctgaacta cagaatctgg gcactggtgt agctctgtat gccctccgtg 960

tcagatgctg gagatgtcat ttgcattgcc agagtttgcc aagggtgcac acagaaagca 1020

gattgaaaag caccctcttg gaacatctct ccaatgcctt ctactcacaa agtttaacat 1080

cattaacacg tgacaaagaa gaactattta atgggcccag atctatttat gaagacaatc 1140

aagtgggagt ttggagtgga taacccaaat ttggataact ggtgaataat aaaatgtatt 1200

tatttctgct ggtgt 1215

<210> 43
<211> 754
<212> DNA
<213> Homo sapien

<400> 43
ggggctcaga agctgtgttg tgtatgttct ttccaagaat cccacctgtc tgctttcaag 60

cacacacggc gctagaaatt tagcctagcc tgagtcctgg gatgagagaa gagctaaaca 120

aagagacccc aaccgtcccc ttggcccccc gccccgccgt tttgcagttt gccaaccttc 180

tagctagaca gccccctaag tctccgtgtt gcgagtgaaa gagaattttt ctatttcatc 240

ttcccattga ccgaagcaga aaaattgaac cgaatctacg ccccttgttc tgattcctgc 300

tagaggaaaa cagaaaatca tcccgcaggt ctctttcagt ccctggatgg cgagcgcagc 360

cctgggaggc cacacttagt tctttattgt gaatctctcg ctactcaagt tcgttcggga 420

ccagggcctc ggatggcctc ggttgcccgt aagtacgcga aagaagaggt gaatccaatc 480

gctggcctag aggatagtga tcagacaacc cgaggattac taaacaaggg gcggcggtgt 540

ccctgtctca tggggttggc gtggggcggg gggtaggcag caagatcctc caggctcctg 600

gatgcaaaga gtgagaaaga aagcgcagca tctggcagcc tgcttataaa tgcagccttt 660

cggaagatga aacttgcagt cttaggttgt cctcctttat atccatgttc caatcctctg 720

ggctttcctc gaaatgaata aaattgtgga aatg 754

<210> 44
<211> 955
<212> DNA
<213> Homo sapien

<400> 44
aaaggggccc aggagacgac ccctttcaga aagaacgtca cttcatcmaa ctcggctgag 60

ttattractg actccccgra aagktcaaca acgccttctc ttctcagccs caccgcgcgg 120

agwtcaatcg ctttacccta ggtagcctct tgttcagggc tcagggactc ctgtcttaag 180

gtccttctgg ggctcagaag ctgtgttgtg tatgttcttt ccaagaatcc cacctgtctg 240

ctttcaagca cacacggcgc tagaaattta gcctagcctg agtcctggga tgagagaaga 300

gctaaacaaa gagaccccaa ccgtcccctt ggcccccctgc cccgccgttt tgcagtttgc 360

caaccttcta gctagacagc cccctaagtc tccgtgttgc gagtgaaaga gaatttttct 420

atttcatctt cccattgacc gaagcagaaa aattgaaccg aatctacgcc ccttgttctg 480

attcctgcta gaggaaaaca gaaaatcatc ccgcaggtct ctttcagtcc ctggatggcg 540

agcgcagccc ctgggaggcc acacttagtt ctttattgtg aatctctcgc tactcaagtt 600

cgttcgggac cagggcctcg gatggcctcg gttgcccgta agtacgcgaa agaagaggtg 660

aatccaatcg ctggcctaga ggatagtgat cagacaaccc gaggattact aaacaagggg 720

cggcggtgtc cctgtctcat ggggttggcg tggggcgggg ggtaggcagc aagatcctcc 780

aggctcctgg atgcaaagag tgagaaagaa agcgcagcat ctggcagcct gcttataaat 840

gcagcctttc ggaagatgaa acttgcagtc ttaggttgtc ctcctttata tccatgttcc 900

aatcctctgg gctttcctcg aaatgaataa aattgtggaa atgaaaaaaa aaaaa 955

<210> 45
<211> 503
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (480)..(480)
<223> n=a, c, g or t

<400> 45
gatatgtatt aggcaaatcc ccaccccacc cccatttttg tctatagcac ttttagaatc 60

atcttgtcat ataatttttaa aacagctggg atttagattg atactgcatt gaatttacct 120

atttatttgg gggagaatta tgccaaatga caatattgtg tcttgccatc taggaatatg 180

agattttccc attttttttcc agtcttttttt atcaccttta gaaaagctat attgttttct 240

ttatatacca cttgcacgtt attagttggg ttaattccaa gatgcatcaa tattatagct 300

tttatgaatg gaatattttt cattgtattt tctaattgtt tgctggacta tatggaaatt 360

gatttttggc atgctgatat atccagcaaa aaactttact gaactctaat gttttgtttc 420

tgagaggttt ctgatggtct gtttcttgca gggatgtctg aatcttccaa gtaaaaatgn 480

gtagactcct attttcctta gac 503

<210> 46
<211> 206
<212> DNA
<213> Homo sapien

<400> 46
ggctgacaaa atactcacct ttacctttat ttttgcattt tatactcaca accatatttt 60

ttttggcccc cttcccttta ttttaactca taactgatac ttaaaggtgc tctgccttat 120

taaatcagct cctaggctgc aagtgcataa tatttaaaaa tttgcaactt tgacttttta 180

aaaatctggt cttggtatgg agcaac 206

<210> 47
<211> 394
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (93)..(119)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (354)..(354)
<223> n=a, c, g or t

<400> 47
attagtctta tgctgcttct gccattttca tttctgtaga cagaagagaa tttagaatgg 60

tttcactgct gtctagtggg ggacaaatta tannnnnnnn nnnnnnnnnn nnnnnnnnna 120

cagatgactg acaactgtta acttctcact atgtgccagg gactattgtg agttaactca 180

cttaatcctc atagccaccc tttgaggtac ctataattat tctatagatg aagaagcaca 240

gacagagagg ttaattaaga gcaagtgttg gagttgaact cctgatattt ccccctttaa 300

gctgaagtcc atgacctgct tcccaattcc tggcagccac acagttgctc tgcnattttt 360

cagtcttcta actttcaaca tagttacttt ttac 394

<210> 48
<211> 135
<212> DNA
<213> Homo sapien

<400> 48
gtcacataac atttccggtg gccattaggg tgagctttaa gatctaactg gccaaggggg 60

cttaagtaca atctttgatc agtaagtggc ttatgcctac ccagagacag cccctcagta 120

gccaggctgt gaaag 135

<210> 49
<211> 394

<212> DNA
<213> Homo sapien

<400> 49
gtaaccatca ctagtatgtg aggcttaaca cgacctctca tcatgactga acgacattca 60

gtactctgat ccaggagcac ctcctaggta gtcaggcttt aaaataaaat cacactcatc 120

cctgacagtc tggcagaata tgtgcatgcc caaggttata ccctctctgg actgagtgca 180

gtatgaagat ccaactatta gtcctggctg aatgggaagc caaaatataa actccttcag 240

ctttgatagc aatctgcaag tcacataaca tttccggtgg ccattagggt gagctttaag 300

atctaactgg ccaaggggggc ttaagtacaa tctttgatca gtaagtggct tatgcctacc 360

cagagacagc ccctcagtag ccaggctgtg aaag 394

<210> 50
<211> 730
<212> DNA
<213> Homo sapien

<400> 50
tggtaagaac atttctcctt tgttagcctt tagcatactt tataatttta caccttataa 60

acaggaacag tgcctatggg tttaattagt gcttagttgt tttgttttgc tccttcattt 120

ttggctgaga aattaatgat atttggaaat atctggagtt ccttttttctt gaaaaggtca 180

caaaccactg atttaaagag gatgactttg aaaatttagc tcacaatagt tgtgaaataa 240

atgtagtagt actttgtagc ttaaattccg gtaaaattat cactttgtca ttttgatctc 300

agaggagagc tattatttgt agcaaactac aaatataaac taacgtggaa ttcctgtgga 360

tcaaggcatg atacatattt atatgtgtgt gtgtgtattc ttttctgaac caatatgaca 420

ataagccatc tactctgaag tacagaggca gccatctatc attgacttat aaagctttga 480

ccccagtgag agtgtgtgta agaaggaata ccttgaacac ttcagagtga agtcacccag 540

cttagctgag tgggggccac catgccttgc tcaaagcagg ttctccagtc agcaaacatc 600

agtcaaggca gaatctatag gcagtgccta ggaacacaga cgcatttcag atggtgagga 660

aaaagcaagt gaagcacaca atttgaatct tggaaatata ctttgaatcc atggggttta 720

gaagacacag 730

<210> 51
<211> 953
<212> DNA
<213> Homo sapien

<400> 51
cgggacaaca ggaccctatg aaggtgggcc cacagcaaaa ggagagatga ttctagagca 60

tccagtcttc tagggcagca aaacaaccta aattttctaa gaggccaccc agctgagggt 120

gcccccgggg agggctgagg cgtcagggtg acggctccac tgcccactca cctgcgacct 180

caaagcccct ctcctccttg gggtgctcct gacagccacc tccagggcag gcgagtggcg 240

ctgggacaaa ggctggcccg actgcgcccc acccaagcag acggtccttc ccccagacct 300

ggcgccaaac tggagtgaaa gcccgaccac cgtgtctcac agggaaactg acaccagatg 360

cgaacttcca aatggatccc tccctgcaag tgtggagctg gcgctaccag gcactgctct 420

ggccatgcgt ctaagacaca ggcagagggc gctgcccacc acgctggcga cggcctcaaa 480

gcccctgttc atgcctggga cagcgcccaa ggaccttgct catgcctggg acaggcccca 540

gggcccccac tggctgcagt cagcagcggg cagggtggtg ggggaaggta tggacactcc 600

gtgggccgga gctgggagaa caaggcctat tattggacac ctggtggcca tggcaaccac 660

acaaggatgc ctgagactga aaatctgtgg gcttcaagga gctccagctc ttgcactggc 720

tgagtcacag tgactatata actcttactc ccacttttgg gacacttttt gagagggaac 780

agggatccta tctaactaca cgggacagac atcgcccaag accgtcctga gcaagcctgg 840

acgctgtgac cctaacgatg aaggtgtccc gcagacaatg tccggggcag gcaccatgct 900

ctcccaacct accacagcca gatgtttttg taaagaacaa taaaaacgat tga 953

<210> 52
<211> 527
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (224)..(365)
<223> n=a, c, g or t

<400> 52
gttgttctct ggattaggag acagaagtta gagtcactat aacttttttt tttcccctgg 60

aagttaatag ggggtatgta ttcctttagc aactgtatta tgtcttgagt atcaattgaa 120

atggccagtt taaggccgta atgtctaaat gggcaactat gctaacaata aaaaaagaac 180

attgaggtct attaatactg ttcacaaata tggtgggttg tttnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnntcacc aatttacttt aacaatgcag agagaaagat ccattaacgt aagtgtttgg 420

atgagttgaa catgtgaaat atagattatt aaagtattga atgcatttta gatgtgggtt 480

atatatgggt tgtacttcat gaatattaag tctcccacag caaactg 527

<210> 53
<211> 406
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (308)..(308)
<223> n=a, c, g or t

<400> 53
agagaatgat ggcacacagt aatgcctctt tctttatttt tgcagaaagt ttcatgagag 60

ggtgagaaac agcaggtatc caatattctg aaggatggca ttctggggtt gcctaggtta 120

ctcagcagga tgcattatca cattatgcct catattcttt tggagtaagt aaaaatgggc 180

aagatgtgag acatggaagt taagccttct gataagaaac ttgcatcatc atcactataa 240

tcaagaatgt gaaaagattt atttacacat cacttttaa ttcatttatc cagtaatgtt 300

agatgtgncc tgtctatgga actgtactag atgttgaagg aggtgtacct agaaatattc 360

agtctggttg aaaatatagg agatatacaa atgggcaggg tgtggt 406

<210> 54
<211> 372
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (293)..(293)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (304)..(304)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (367)..(367)
<223> n=a, c, g or t

<400> 54
gttctttaac acatttgtat tatctttcag ttaaaagtat gtctttatgc ctacatattt 60

caaagtaata tgagagagaa cattaaactg tgttgtattg tgataaaatt cttggaatct 120

taaacatcat aatacctcag gttatttggt cactgctctt gctagcaagg ctaagtagtt 180

tcagtccttt agagctttat atttaatgga aggttaaaaa caaaaacggg atgggaagga 240

acgtatcgcc taatacataa ttcttgtcat tagatgattt ttcctgtaaa ggngctaata 300

aggnatattc ctcggaattt attgtacatt atggattttg atatatactt agtaaaggtt 360

aagtaangga ct 372

<210> 55
<211> 537
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (214)..(326)
<223> n=a, c, g or t

<400> 55
gcgtccgggc taaatgaaat atgaaataac catactattg aatactatgc atcagctaaa 60

aatagcaaga gatctttgtt gagtgaaaaa ataaattgct gattgatcat taaatataac 120

actatgtttt taagaagcct cagaaaacag taatatatga tcctataggc ataaaattat 180

ttatgatatc acacggaggt ctatagaatt tatnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnntagc aacatttgaa tggtggccag tgtaatggag 360

agtgcagatc tagaagaaca aacacaactg gtaacagagt tacctggggg aaggttgagt 420

ttggggatgg agggctacag aaactttaga gttctgcaga acttttaaca tttttacaat 480

gagaatacat catatattat ctagctaatt taaaacaaat acattgttaa aatgaaa 537

<210> 56
<211> 847
<212> DNA
<213> Homo sapien

<400> 56
caaaattaaa cttagacttt ttgaatttat tagctgtttt tgtgaagatt aattttagaa 60

agctaaaatt aaacactgaa agtaagttac tttattccat acggtctctg tccagtttta 120

gcactaaaat cagttcaagg atgccaatcc ctaattggcc aaatagcctt accattcttg 180

ttttcttctc caaatttgtt tttttgctgg tcagataact tccaatctct aaaatattcc 240

tgaaatgata aatttttatg atacagcata gaataatatg tatgtggaga cttgaaggag 300

tcaaatctca atgagccttt tgtagggctt aacgattgtt aaaaggggggc caaaagggca 360

ctaatttttg gaaagtgtat gtttgtttat ggtggtgaat gtgtagagag ggtgaaaagt 420

aaaggaaaag tagaacaaga agaaagaaaa ctgataggta tgacgatgag agagaaagaa 480

aatgggaaga gagcgcaaga cgtgcagatt tagaaaaaag gttgagggaa acatattcaa 540

aagggaaaaa gaaagcaggg ggaaaataca ttagaggtgt tgaaattagt aggcactcac 600

agaggtgcta atcgagagtt ctgttgggct cctgtcatgc tgctattaaa gagcattagc 660

agctaagaga tctaaattct agtcctagtt ctttgtgttg ccgtggagaa gtcagttaac 720

ttacatgagg ctcaggttcc ttacctgtgt gtaaaatggg aacattgaac taggtgatct 780

ttaagatccc ttccgggtct aaaattgttt gacattatct tggtggtcag taactgtgag 840

aaacaca 847

<210> 57
<211> 1448
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1420)..(1420)
<223> n=a, c, g or t

<400> 57
caaaattaaa cttagacttt ttgaatttat tagctgtttt tgtgaagatt aattttagaa 60

agctaaaatt aaacactgaa agtaagttac tttattccat acggtctctg tccagtttta 120

gcactaaaat cagttcaagg atgccaatcc ctaattggcc aaatagcctt accattcttg 180

ttttcttctc caaatttgtt tttttgctgg tcagataact tccaatctct aaaatattcc 240

tgaaatgata aatttttatg atacagcata gaataatatg tatgtggaga cttgaaggag 300

tcaaatctca atgagccttt tgtagggctt aacgattgtt aaaaggggggc caaaagggca 360

ctaatttttg gaaagtgtat gtttgtttat ggtggtgaat gtgtagagag ggtgaaaagt 420

aaaggaaaag tagaacaaga agaaagaaaa ctgataggta tgacgatgag agagaaagaa 480

aatgggaaga gagcgcaaga cgtgcagatt tagaaaaaag gttgagggaa acatattcaa 540

aagggaaaaa gaaagcaggg ggaaaataca ttagaggtgt tgaaattagt aggcactcac 600

agaggtgcta atcgagagtt ctgttgggct cctgtcatgc tgctattaaa gagcattagc 660

agctaagaga tctaaattct agtcctagtt ctttgtgttg ccgtggagaa gtcagttaac 720

ttacatgagg ctcaggttcc ttacctgtgt gtaaaatggg aacattgaac taggtgatct 780

ttaagatccc ttccggctct aaaattgttt gacattatct tggtggtcag taactgtgag 840

aaacacattc ctgaggaaaa tttgcagcta tagttgactt caggacagca tgtttaggga 900

gtagaatgta agctccctga gggtaggggc cttttctgtt gtgttcactg ccatatcccc 960

agcagctagc acaatgcgtg ttacatagta ggcattcatt aaatgtttgt tgaatgaatg 1020

atgtgaaaag tatgttgatg gtttgttagg agcacaccta gaaagcctca aagaaaaatg 1080

gtgtgcttta gggagggaaa agacagattt cttctgaaga aatcttaagc aagctgattt 1140

ttaatcctta ttcttcctta ttttgtccca gattcaaaga aagtggcttc agctagtgac 1200

attctcatag tcacaaaact tacggtgact gtagacatac ataaaagtgt acatgtaatc 1260

taggccagtt ccctttaagt atcttacaga aaggcaggac caagcttagg tctccatgga 1320

atctgagtga aaagtatata catggaatat attagttata ttgaattaga ttgattggat 1380

taaaattcat tcagttgaga ggcacagtta gtctacaagn ctgagataca ggctgccaaa 1440

tttaagat 1448

<210> 58
<211> 354
<212> DNA
<213> Homo sapien

<400> 58
acaaagatta ggacaagtat tccaggttct gacttacttc cttggagcct ctccttgaag 60

agctctgttt tctgaggacc gagtctaaaa actgaggccc tcagccactg gggacatgaa 120

atttcttgga aaggaaaaat taagtcttgg gttgactagc aaaacctgac cttttcaagc 180

tctagctcta acatcttctt gtctctgagt tgctgctgaa agacaaaaat atgagagttt 240

gggacccatt tctcactctc attctaatca agcagcagat attcattatt aatgaaatat 300

ataactatgt taatttaatt gatataggta ttgtttccag gatattcatt taaa 354

<210> 59
<211> 586
<212> DNA
<213> Homo sapien

<400> 59
cactgcaaat gctactcgag gcagagagac ggaggaggtg gaatgtggcc tgtttccaca 60

ttgggccctt cggttttcca cagtgtcttt cactggcctt cttgaaatcc aggaaacaag 120

agagctggaa aatattggtc tctgagttat agcacagggc agagaagggc agaaaatgca 180

cctgaaagaa aacaggcaag tgacctatat accttctttt aggccttctc cctcttgtgt 240

accgcatagc atattaagtg taaaattatt ataacactca ttgtatcacg tggctgtgtt 300

ttgcttacat atccatctca acttttatct cttgctttcc ccagcaccag cactggcaca 360

ttgcaatttt tgaacaaaag atttttgaac taatgaataa ataggtgatt agatttaatt 420

caatttcaat gaatgtttat taggtcatta ttaggatatt gggtcagaat gttctagttg 480

attctacata catcacctcc ttcatagagt atcctgaaag gcccacaatt cactcgcaca 540

ttctttctcc taactgtcaa attttaccaa ttaaaaagta ttatca 586

<210> 60
<211> 610
<212> DNA
<213> Homo sapien

<400> 60
gtgtggagga gacgcagcag ctaccactgc aaatgctact cgaggcagag agacggagga 60

ggtggaatgt ggcctgtttc cacattgggc ccttcggttt tccacagtgt ctttcactgg 120

ccttcttgaa atccaggaaa caagagagct ggaaaatatt ggtctctgag ttatagcaca 180

gggcagagaa gggcagaaaa tgcacctgaa agaaaacagg caagtgacct atataccttc 240

ttttaggcct tctccctctt gtgtaccgca tagcatatta agtgtaaaat tattataaca 300

ctcattgtat cacgtggctg tgttttgctt acatatccat ctcaactttt atctcttgct 360

ttccccagca ccagcactgg cacattgcaa tttttgaaca aaagattttt gaactaatga 420

ataaataggt gattagattt aattcaattt caatgaatgt ttattaggtc attattagga 480

tattgggtca gaatgttcta gttgattcta catacatcac ctccttcata gagtatcctg 540

aaaggcccac aattcactcg cacattcttt ctcctaactg tcaaatttta ccaattaaaa 600

agtattatca 610

<210> 61
<211> 595
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (329)..(329)
<223> n=a, c, g or t

<400> 61
aggaaatcaa ttaatttttct tgaaaactgg aacatgaaat aatcaaacat ttattctgcc 60

ttccttatat gaactatact actgaatagc caaatagatg aggggaagta tctttttgta 120

atagtattct aactaatcaa ttaaaaagtg aaaataattt ttcagttctt attaaatgga 180

tggacattaa acatcagtag ctactaagat tgcaaagtca gtcaaacatt agctatggat 240

gttatagatg tcccaaagga atcagtcctg aatttgattc agtctcctgg atctagctgc 300

ctatgacagg aaataaagaa taacatgtng gattgcagca tgagtatgta atctgcaaaa 360

tccagactat gggaagcttg tcaggtcaaa gggcccaggt tctttaaagc agaacttgtc 420

aggaaatggg tggaggaagg accaatagat taagacattc aagaaatatc caatttttta 480

atggatgaga ctaaaaaact gtgttcaagg atgcacattt gagtgacaaa actctgaaaa 540

gacccaagga agtgattact attaaagtca aaacaacagt tggttatggt aggag 595

<210> 62
<211> 810
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (329)..(329)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (691)..(752)
<223> n=a, c, g or t

<400> 62
aggaaatcaa ttaatttttct tgaaaactgg aacatgaaat aatcaaacat ttattctgcc 60

ttccttatat gaactatact actgaatagc caaatagatg aggggaagta tctttttgta 120

atagtattct aactaatcaa ttaaaaagtg aaaataattt ttcagttctt attaaatgga 180

tggacattaa acatcagtag ctactaagat tgcaaagtca gtcaaacatt agctatggat 240

gttatagatg tcccaaagga atcagtcctg aatttgattc agtctcctgg atctagctgc 300

ctatgacagg aaataaagaa taacatgtng gattgcagca tgagtatgta atctgcaaaa 360

tccagactat gggaagcttg tcaggtcaaa gggcccaggt tctttaaagc agaacttgtc 420

aggaaatggg tggaggaagg accaatagat taagacattc aagaaatatc caatttttta 480

atggatgaga ctaaaaaact gtgttcaagg atgcacattt gagtgacaaa actctgaaaa 540

gacccaagga agtgattact attaaagtca aaacaacagt tggttatggt aggagggaaa 600

agtattgtat aggcatgggt agtatcgcac agttaaaata actcattaag ctaagtatat 660

ttgtatttgt ttgctgtatc tgttttattt nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 720

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnggccgagg tgggctagat ctacctgtag 780

gtcaggtagt tcgagaccta gcctggccat 810

<210> 63
<211> 1215
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (778)..(801)
<223> n=a, c, g or t

<400> 63
agcaaataca gtacacataa aacatgggca tttgttctgg aaagggcttt ctcctgctga 60

tattgcagat agtttcacag gtcacagaac cttaaaaagg atttaaaggg catgtcttgt 120

gtagcatttg ttcctttgaa aatgatgctc ctttcccatt ttttagtaat tgaagaggat 180

agaaaggttt tctcattgct tacgtttcac tgaattctct gcagcccctt ttcccacaga 240

tgtttcagcc aaacctgtat ggagggaggt gacatggcat ggcttgctgt ttaaaacagt 300

tacggtattt tgtgcttccc ttttgagtgt gtccaagttg aacaaaagga gagcctctag 360

aacgcatggg aggggaaatt tgggaccagg acctttttaca tgctgggggga aactgacagg 420

actcagtgag gaaagacttt tgtttgtgtt ttcttctctc tctttctctg cagagcgcat 480

gatctatatc aacatgcttc ctggtcatac taaagaatct cagctagtgg tgatctacca 540

gtttctgtga ggattattac tgtattaatg cattttggga ggtgttcatt cagttcagag 600

tgaatgcttt ggaagacatt gcacagcttg aatcatgggg catcagggat agcttgactt 660

ttcctgaagg atgtatggtg gccatagact agttggttgg aagcttgcat tctgtaagcc 720

tggtatcaaa tgcacacatt aagccatgtt ttcctaacag aatgaacatt ttttacannn 780

nnnnnnnnnn nnnnnnnnnn ngctcagaac cttagaacag gatgatatca tcagaaagaa 840

taagggaaag taggccagaa ttagaaaaca tcaagatcat tggaaaactg ctatacttgc 900

attgcttcct ccttggttca ttgtacaatg gccttaattc aggtgacatt gcaagtacct 960

ttggtgccct ccagaaatta agcgcatttg gtattgtgtg tgcagcttgt ttttcttctg 1020

ttgcagcaga caaaattgtg acatattatt gctaaggaga ttgacaactc ataagaataa 1080

atattgtctg tgggcaagat ttttttgttt gtttccagag aacattatta atttcagatt 1140

atattaaaga cttacatggc aggagacttt cttctagata actaaaaaca ctgcgtagaa 1200

agttatacta tgttt 1215

<210> 64
<211> 1841

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (774)..(797)
<223> n=a, c, g or t

<400> 64
agcaaataca gtacacataa aacatgggca tttgttctgg aaagggcttt ctcctgctga 60

tattgcagat agtttcacag gtcacagaac cttaaaaagg atttaaaggg catgtcttgt 120

gtagcatttg ttcctttgaa aatgatgctc ctttcccatt ttttagtaat tgaagaggat 180

agaaaggttt tctcattgct tacgtttcac tgaattctct gcagcccctt ttcccacaga 240

tgtttcagcc aaacctgtat ggagggaggt gacatggcat ggcttgctgt ttaaaacagc 300

tacggtattt tgtgcttccc ttttgagtgt gtcaaggtga acaaaaggag agcctctaga 360

acgcatggga gggaatttgg gacaggacct tttacatgct gggggaaact gacaggactc 420

agtgaggaaa gacttttgtt tgtgtttttct tctctctctt tctctgcaga gcgcatgatc 480

tatatcaaca tgcttcctgg tcatactaaa gaatctcagc tagtggtgat ctaccagttt 540

ctgtgaggat tattactgta ttaatgcatt ttgggaggtg ttcattcagt tcagagtgaa 600

tgctttggaa gacattgcac agcttgaatc atggggcatc agggatagct tgacttttcc 660

tgaaggatgt atggtggcca tagactagtt ggttggaagc ttgcattctg taagcctggt 720

atcaaatgca cacattaagc catgttttcc tagcagaatg aacatttttt acannnnnnn 780

nnnnnnnnnn nnnnnngct cagaacctta gaacaggatg atatcatcag aaagaataag 840

ggaaagtagg ccagaattag aaaacatcaa gatcattgga aaactgctat acttgcattg 900

cttcctcctt ggttcattgt acaatggcct taattcaggt gacattgcaa gtacctttgg 960

tgccctccag aaattaagcg catttggtat tgtgtgtgca gcttgttttt cttctgttgc 1020

agcagacaaa attgtgacat attattgcta aggagattga caactcataa gaataaatat 1080

tgtctgtggg caagattttt ttgtttgttt ccagagaaca ttattaattt cagattatat 1140

taaagactta catggcagga gactttcttc tagataacta aaaacactgc gtagaaagtt 1200

atactatgtt tggccgggag cggtggctca tgcctgcaat cccaacactt tgggaggcca 1260

agacattatc gaggaaattt ctggctgatt tctgggtcag tgccacagca gatcaattgg 1320

atggtcagtc cacgtcctgt ctccaaaggc ccagttccag agcccttgt gtctttggac 1380

attttcctca agtagcgcta gctgcaatgg ttacattgcc catgaaggac ctacctcagc 1440

tctgtctgcc gctccttgaa ggtacttcta ggagtctcca agatggcttg tgtgaacacg 1500

tgtcagacca ggttattgga ggccaccgtg ctgtcacctt cctctgccaa gtccaggccc 1560

actgtgggga ccgctgtcca ggcttagaaa ctccgtctcc cacaatttct ccactaagat 1620

gtgaaaatgg aagactagca ggcaagcctg tgggaaccat ctgcgtcact ggcatctggg 1680

aaaagcaacc acccagggca ggatgccacg ggacagggga gcataagcaa ctgaaaatga 1740

agcggccaca aggccagagc ttggctcaca ctcagaattc gccaccctac catctcctgc 1800

caggaatatt ccaagaatgt ggagtaacag gggacagcta g 1841

<210> 65
<211> 257
<212> DNA
<213> Homo sapien

<400> 65
catgcctggc cttccacatg aaatttaaag tcagcttctc aatttctatt gttttggttc 60

taaaatagat gtaagggttt taaagtgagc aacaatctct aggagccaga tttttgagtt 120

ttctctccca aagctgcttt tcccctagtc ttctccatct tagtgaatgg caacttcact 180

cttccagatg ctcacaccaa acaccctgaa atcactcttg attctttctc ttatacccca 240

cattaaattc ctcagca 257

<210> 66
<211> 327
<212> DNA
<213> Homo sapien

<400> 66
caggcagtga tgcgaggtga tctagaggat cccgataccc attatgtgcg tgatcatagg 60

catgagccac catgcctggc cttccacatg aaatttaaag tcagcttctc aatttctatt 120

gttttggttc taaaatagat gtaagggttt taaagtgagc aacaatctct aggagccaga 180

tttttgagtt ttctctccca aagctgcttt tcccctagtc ttctccatct tagtgaatgg 240

caacttcact cttccagatg ctcacaccaa acaccctgaa atcactcttg attctttctc 300

ttatacccca cattaaattc ctcagca 327

<210> 67
<211> 487
<212> DNA
<213> Homo sapien

<400> 67
gtaagtgttt attattatta cttctcattg tagtctcctt tatgaaacgt gtgtgcatag 60

cctgtctgga ggatgacttt ttgtctttta aagagagaag ctgtactact tctactgtac 120

cagaaattca tctgagagca ggttactttc tcattgtaaa gtccatgcaa gccagataaa 180

cctatagggt agcacttcct taattagttt acaatttctg aggataggtt ggtgggagta 240

aactgcctct gagtgttcac ttctctggga actgtcccgt ctgttgttgt gtatcatatg 300

ttctagtgca ttttttttca gttatgtcct ttcccacaaa gcagtttggt gtaaccactg 360

taatcccagt aagctatggt tggggtctat gtataggaat gtgcaccctg aaattcattc 420

acttattcag cacaatttta tttgagcatc tactaagtgt tagggcactc tctgtggtca 480

gatatat 487

<210> 68
<211> 1006
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (317)..(479)
<223> n=a, c, g or t

<400> 68
aacattttat aaataacaag aaagagtatg ctactttcaa caatatcatg tttaatatac 60

ataaaatata taagcatgta aaatatatgt aacatatata cttaaaatgc atatacatta 120

tatacattta actaagtaca aatataaatg tgcctaagag gtaagcttca aatggaattg 180

agggaaataa gcttcaaatt catttctcat atattcatca ttttatttgt tcatatgtta 240

tgtttttgtt gttgtgtatg ggagaggtac tgatttaggt tacttctttg tagtagagga 300

tggtagttaa aaatacnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna 480

atataatgtg ttggatcagt gcttatgtgg aagcactagg taagtgttta ttattattac 540

ttctcattgt agtctccttt atgaaacgtg tgtgcatagc ctgtctggag gatgactttt 600

tgtcttttaa agagagaagc tgtactactt ctactgtacc agaaattcat ctgagagcag 660

gttactttct cattgtaaag tccatgcaag ccagataaac ctatagggta gcacttcctt 720

aattagttta caatttctga ggataggttg gtgggagtaa actgcctctg agtgttcact 780

tctctgggaa ctgtcccgtc tgttgttgtg tatcatatgt tctagtgcat ttttttttcag 840

ttatgtcctt tcccacaaag cagtttggtg taaccactgt aatcccagta agctatggtt 900

ggggtctatg tataggaatg tgcaccctga aattcattca cttattcagc acaattttat 960

ttgagcatct actaagtgtt agggcactct ctgtggtcag atatat 1006

<210> 69
<211> 126
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (70)..(70)
<223> n=a, c, g or t

<400> 69
ccccttttact ttttataagt attgatagct ccctttttcat gcctgaggta ttaatctgag 60

tcttctcttn ttttttttctt ggtcagtcta gctaaacagt tgccaatttg ttgatctttt 120

ccaaga 126

<210> 70
<211> 448
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (364)..(364)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (377)..(377)
<223> n=a, c, g or t

<400> 70
ttttttttttt ggaaaagatc aacaaattgg caactgttta gctagactga ccaagaaaaa 60

aaaaagagaa gactcagatt aatacctcag gcatggaaaa gggagcgaga ctctgtctca 120

aaacaacaac aacaaaaaga tacaagcaaa acaaatcaag aaacgtatac aaaggattat 180

acaccatgac caagtgggat ttatcccagg aatacaaggt tggtttaata tttgaaaatc 240

aatcgatgaa acacacaaaa ttgagagaat aaagatgaga agcttaatgt agggtaaaat 300

gtctgaagct ctaagtgaaa ctgttgataa gctggggttt ctactcttgg aacgctagag 360

aggnagagac acttagntac ttagtaacag caaaaagccc ggccaaaaag tagaactcaa 420

gtgctttaga aactctgtgg gcaggggt 448

<210> 71

<211> 91
<212> DNA
<213> Homo sapien

<400> 71
ttcggctcga gtaggaaatt aggaattaag taactgccct tcatactggt aatcttgata 60

tgttgaagga agtgacttgt tataagatag a 91

<210> 72
<211> 401
<212> DNA
<213> Homo sapien

<400> 72
aacaacaaaa aaaatccatt tataaataaa aatattttta aaaacaaaga gcttgcgatg 60

ggcctgcaga cactcagcta aagatgtctc ataggttgtc cttgcagcta agtggggcca 120

tgagactagg ctttaaccag tgggctgaga gttaaagtga tttttgccat tctgttttta 180

ggaatggatg tgtctgcctg tggcagatta tatttttcaa agatgaccac aaaaatatct 240

cctatctcat gtgtgattct acagtggggt ctatgtcccc tcttcttgaa tgtgtgtgca 300

cttgtgactg ctttgactaa cagagtatgg ggtaggatgc catgtgactt ctgaggctgg 360

gtcacggaaa gcaattgtta taagttaaat tgcatgtccc c 401

<210> 73
<211> 422
<212> DNA
<213> Homo sapien

<400> 73
acatatgtag gtttgttata taacaacaaa aaaaatccat ttataaataa aaatattttt 60

aaaaacaaag agcttgcgat gggcctgcag acactcagct aaagatgtct cataggttgt 120

ccttgcagct aagtggggcc atgagactag gctttaacca gtgggctgag agttaaagtg 180

atttttgcca ttctgttttt aggaatggat gtgtctgcct gtggcagatt atatttttca 240

aagatgacca caaaaatatc tcctatctca tgtgtgattc tacagtgggg tctatgtccc 300

ctcttcttga atgtgtgtgc acttgtgact gctttgacta acagagtatg gggtaggatg 360

ccatgtgact tctgaggctg ggtcacggaa agcaattgtt ataagttaaa ttgcatgtcc 420

cc 422

<210> 74
<211> 471
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (392)..(392)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (459)..(459)
<223> n=a, c, g or t

<400> 74
ctttgtgtct ctacaacgta aatgtgaaaa gttagctcag acatagagga aacattcatg 60

cttctatttt aagtagaaat gcctatgtga tactcaaaaa ttcttatttt agttgtacat 120

cagaaagttc tgtttcacca gatcatgttt acagatagag tatgaggcat tgatccatga 180

gaggacttca ttcaactaac ctttactgag cacctactgt atgcaatgca ccatttccga 240

tgctaaaaca ctgcaaagag gcagacagaa atccctaccc tgatggaatt ggcgttctgt 300

gacacctctc taagtgtgtg ccccccttccc tagtgctgtg acttacaatt ctttttaaag 360

ccattattat tctggagaac ccaaggattg cntctttctc agagctctaa tgtcaataac 420

cctatcattc tttgtcatag actttgcgaa ctgagggant cacatttaat g 471

<210> 75
<211> 214
<212> DNA
<213> Homo sapien

<400> 75
ggggtactca atgttagcct acagctcaac tcttactcta ataggatctc tttcctcctt 60

ctcccctaaa tttttcccac tggttgaaga gagatctgga tgactaaacc tcccatcttg 120

acaccttgga gtttgttaag caggtcccct ctctgtagct tccaaagcca tgaagaaggg 180

gaaggaaggc caagacaggg gtagatagag gtgg 214

<210> 76
<211> 214
<212> DNA
<213> Homo sapien

<400> 76
cctccattca ccatctacag aatggaagag acgctaatgt caccctggaa ggtgttttga 60

agggtaatgt gtgtaaaggg ccaaacaagg ccccacacag ttaaggactt aatcctgccc 120

ggccccggga gggcttccgg catcttgggg ttcccctcaa aggatggcct gggcaggact 180

tcttaaaaac aaacaggcgg ctgggcgcgg tggc 214

<210> 77
<211> 552
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (273)..(357)
<223> n=a, c, g or t

<400> 77
aaatgtccca aatatgcagg gggtcaagga acattgctca gtggaatcaa tggggagcgt 60

gggctactcc ccagcctctg gtttgcccca tagcagcccc ttgggcaccg ctggggaccc 120

ccaggcctct gaggagcttg gtttggaaag cgctggaatg ctggaccaag ttccctctct 180

ggctccctga gaggggtct tctagcccca gtcttagggc aagaggagcc cgtccctag 240

gagcctccag gccctggagc cagacatcgg gcnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnaag 360

agacgctaat gtcaccctgg aaggtgtttt gaagggtaat gtgtgtaaag ggccaaacaa 420

ggccccgcac agttaaggac ttaatcctgc ccggccccgg gagggcttcc ggcatcttgg 480

ggttcccctc aaaggatggc ctgggcagga cttcttaaaa acaaacaggc ggctgggcgc 540

ggtggctcac gc 552

<210> 78
<211> 452
<212> DNA
<213> Homo sapien

<400> 78
cattttagaa actagcatgt ttctaattaa acctgtttac atcaactaaa atactaacat 60

gctttgtaaa aggcccttca gtattgaaag tgtagtgcat tgtggtaagc ataatataaa 120

cacacaaagc cccatttaga tattgtgagg ctttcagtat ttagaatctc agtagtgatg 180

agtttaaaag gctaaggatg atggcaaagc tgattccaac ttggggctaa attttatttg 240

tcctgcttct atggaattag acctgagagt cacctatggt aggtcacaaa tgccttttca 300

attttgattt gcttgcattt tctatacagg ctgtaacact gccgcataaa acactagggg 360

ctcttgccag aggggactgt acaagcagtc cacagatgtt ctcgaagaaa ctccctggaa 420

ctttactact cggttataca aagagccgtc aa 452

<210> 79
<211> 747

<212> DNA
<213> Homo sapien

<400> 79
ttttttttt ttttgagaca gtgtctcgcc ctgtcgccca ggctggagtg cagtggtaca 60

atctaggctc actgcaaccc ccgcctccca ggttcaagtg attcttatgc ctcagcctcc 120

cgagcagctg ggattacaga tgcccaccaa gacactcagc caatttttgt atttttagta 180

gagatggggc ttcaccatgt ttgtcaggct ggtcttgaac tcctgacctc aagtgatctg 240

cccaccctgg cctcccaagt gctgggatta caggcatgag ccaccacgcc tggccttgac 300

ggctctttgt ataaccgagt agtaaagttc cagggagttt cttcgagaac atctgtggac 360

tgcttgtaca gtcccctctg gcaagagccc ctagtgtttt atgcggcagt gttacagcct 420

gtatagaaaa tgcaagcaaa tcaaaattga aaaggcattt gtgacctacc ataggtgact 480

ctcaggtcta attccataga agcaggacaa ataaaattta gccccaagtt ggaatcagct 540

ttgccatcat ccttagcctt ttaaactcat cactactgag attctaaata ctgaaagcct 600

cacaatatct aaatggggct ttgtgtgttt atattatgct taccacaatg cactacactt 660

tcaatactga agggcctttt acaaagcatg ttagtatttt agttgatgta aacaggttta 720

attagaaaca tgctagtttc taaaatg 747

<210> 80
<211> 353
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (102)..(217)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (293)..(293)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (306)..(306)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (339)..(339)
<223> n=a, c, g or t

<400> 80
ctctggggaa agccctgttc tgtgggcttt ggccacttaa atctatatgt cttctgctgc 60

tgtctcaagg cagtgatgca gccctgacta tccttctgcc cnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnncct ggtaaaatgt acagaagcat 240

gcatttttga aacaagtaaa ggaagaagac ttaggcgctc tccactccaa ggncacctgc 300

accttnccta tgtagctttc cccagcaaca acgaagccna gcattgggtt ctt 353

<210> 81
<211> 627
<212> DNA
<213> Homo sapien

<400> 81
gaaaagtgac ttgggtgcca ggagacatgg gccctcccta gtcctggctg tctctaactt 60

gtgagtgact caagctgtct ccggttccac tttctggaag actaatggct tggatgagat 120

cgtggttttc agatctgtcc tagccacaga accctctctt caaacaagcc cttacctgca 180

atctgaacat aaaatgctac ctggtgggac tcacgagtga gttccggaca ggacaggaga 240

cggctgtcac tgggctccag gatgtgggtg gcagtgcctg acttcccgct cctgcctgct 300

gtgggagacg agcttcttgc actggggcct gatttcccag gctggcctct cagatcccgt 360

ggcttcaagt tctcctggtc atgcagtgtc ctggttcagc actgaattgt tccctaatgg 420

tttcctgtgt ggcagattcc ttagctctac agtgaactct aacagggtag gcttgaccgg 480

cttctgtggt ttgcttggag tagttaggat gaaaattcag aacctgcctg ctgactgaaa 540

tgggcgttca tgtcttagaa tgctcaccag attgcttgtt ctcttacaca tagtagaggt 600

caataaaacg gagtttgtgg gatgttt 627

<210> 82
<211> 476
<212> DNA
<213> Homo sapien

<400> 82
tcaataacaa ctttattctc tcatggtcct ggattttaag atgttcaaaa ttaaggtgtg 60

ggcagggcca tgttctctct gacaccttta gagaagagtc cttcctggct tcttagccag 120

cattgcccct tggttgcctg cagtccttgg tgtttcttgg ctgtagcaac atgactccga 180

tccctgtctc ctatccacac atggccttct gcccctatat atctttgtgt cttgcacaag 240

gccttcttag aaggatacta gttgttggta tttaagggtg cacctaatc caacccatgg 300

cactcaatca ttaacctaaa ttaacattct gacgaaggag tcctatttcc ataataaagg 360

tcaacactga ggttactggg ttgaataatg gatatatgga catgtgtcct ccaaccccaa 420

atactcaata catatgaaat atgtaactac tcaagaaaat atacacacaa cagatg 476

<210> 83
<211> 387
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (12)..(12)
<223> n=a, c, g or t

<400> 83
caaaacaaag cntcaaagtc tacactgtgg cctgtagggc ccggcctggt ctggcctggt 60

ctgtgacttt gggcctcgtc tttctcttct cccctcctgg gtctctagac tccagcaacg 120

ttggcctcct tgctgcctct tggcatgcca agctctctcc tccctgcaga cttcattcct 180

gctgttcctt ctgttctaga tgcttcatca ttcaagcttc agcaaagatg ccttttcctt 240

ggggtggcct ccccagcctg agcaacagca gcctctgctg gtcatccttg ccatgtcact 300

ccactctgtc tttccatagt gtctgttggt actgcaagta tcttattttg tgtatttgtt 360

cattgtcagc gtcttctcag tagcatg 387

<210> 84
<211> 4270
<212> DNA
<213> Homo sapien

<400> 84
atgctactga gaagacgctg acaatgaaca aatacacaaa ataagatact tgcagtacca 60

acagacacta tggaaagaca gagtggagtg acatggcaag gatgaccagc agaggctgct 120

gttgctcagg ctggggaggc caccccaagg aaaaggcatc tttgctgaag cttgaatgat 180

gaagcatcta gaacagaagg aacagcagga atgaagtctg cagggaggag agagcttggc 240

atgccaagag gcagcaagga ggccaacgtt gctggagtct agagacccag gaggggagaa 300

gagaaagacg aggcccaaag tcacagacca ggccagacca ggccgggccc tacaggccac 360

agtgtagact ttgatgcttt gttttggttt ggttttggtt tgttttttt gagacggggt 420

ttcactctgt cacccaggct ggagtgcagt ggtgcaatct tggttcactg cagcctccgc 480

ctcctgctcg tgcctcagcc tccaagtaga taggactaca gtggcgcgtc accatgcccg 540

actaattttt gtatttttaa tagagacggg gtttcgccat gttggccagg ctggtctcga 600

actcctgacc tcagccacag ctgttgcaaa tccaacactg tcctccttag atgttaaacg 660

gattttattt caaaaaatta ccgacagagg ggatgagttg caaaaagcct ttcagctgct 720

ggatactggt cagaacttga ctgtgtcaaa aagtgaactg agaagaatca tcacagactt 780

cctgatgccg ctcacacgag aacagtttca ggacgtgttg gctcaggtgc tgaatatctt 840

cagcagatct ggtggctctc tggtcacatt taggtctaaa caggtccagt gcaggcgagt 900

tcagtttaaa cctcaagtgt ggggctggtt cagcacgccc ttctcagctc ctccaagccc 960

gagggccctg gagtggccct tgccaaactt cagtctgaca aatgataaga gccttggaga 1020

cgtcgctctg gtgggtgtga gctcgctgcc aggttgctgc ttcccggtgc tcacgctaga 1080

gatccatatg ggttgctctg gggttttaaa aaagcgcatc gtgctcatgt cctccatttt 1140

accaaaggag gttttcaaaa acattaagac tgttatgaaa gcctttgagc tcattgatgt 1200

taacaagact ggactggttc gaccgcagga gctaagaagg gttctggaga ccttctgtat 1260

gaagttaaga gacgaggaat acgaaaagtt ttcgaaacac tacaacatcc acaaggatac 1320

tgcagtagat tacaacgtgt ttttgaagaa tctcagcata aataacgact tgaaccttag 1380

atattgtatg ggaaatcaag aggtctcgtt ggagaatcaa caagccaaaa attccaaaaa 1440

ggaacgtttg ctaggttctg catcatctga agatatctgg agaaactact ccttggatga 1500

aattgagagg aacttttgtc tacaactttc gaagtcttat gaaaaggttg aaaaggccct 1560

cagtgcaggg gacccctgta aaggtggcta cgtgtctttt aattatctaa agattgtcct 1620

cgacactttt gtataccaaa taccaagaag aatttttatc cagttaatga aaagcatcaa 1680

ctctagaaat gaatctcaca aggaaaacat catcacaaag ttatttagac acactgaaga 1740

tcactctgcg tcactgaaga aagcattact gataatcaac actatcaggg acagcacgag 1800

aatgtcagct ctcactgctt ctagtcaaca ctgtgctaga gttctggaca gtccaatcga 1860

gaaagaaaaa gaaataaaag gcatcaagat tgaaaaggaa gaaaaacccg atggaccgat 1920

aacaagagaa gaatttcgat atattctaaa ttgcatggct gtaaaactaa gcgattcaga 1980

attcaaagaa ctaatgcaaa tgcttgaccc tggggacact ggagtggtca acaccagcat 2040

gtttattgat ctgattgaag agaactgtag ggtggaagaa attgttcatg atacaattac 2100

taggaaccta caagcttttt ataacatgct acgctcatat gaccttggag acacagggcg 2160

cattggccga aataatttca agaaaatcat gcacgtcttc tgtccatttt taacgaatgc 2220

acatttcata aaactctgca gtaagattca ggacattggt tcaggaagaa tcctttacaa 2280

gaaacttttg gcatgcatag gaattgatgg cccacccact gtctctccag ttcttgttcc 2340

aaaggatcag ctgttaagtg aacatttaca aaaagatgaa cagcagcagc cagatctttc 2400

tgagagaacc aagctcacgg aggataaaac caccctgacc aagaagatga ccacagaaga 2460

agtgattgaa aaattcaaaa agtgtataca gcagcaggac ccggcattca aaaaacgatt 2520

tcttgacttc agcaaggagc ctaatggaaa aattaacgtg catgacttta agaaggtact 2580

ggaagacact gggatgccca tggacgatga tcagtatgcc ctgctgacca ctaaaatagg 2640

cttcgagaag gaagggatga gctatcttga ttttgcagca ggatttgaag aatctgtgct 2700

aaatgctggg gatgaaagct accagcccca ccccagggag ctcggtctaa tcccagacac 2760

agatggtaaa cagacaagtc atattcatag taattggctg ttgtcgaagg aactggagca 2820

tcctctggag gcacaaggaa aagatccctt taaggaggac tccctggagg aggtggcccc 2880

cacactgaat cgaatccctg tgccctccaa ccagcacgat gggctgagtg gaagtccttc 2940

agttgtggca ggcttgtgga tcccagacac ggctgatctc tatcacggtc atcgaaacag 3000

aggcctggcc ttcaggtggc tccttgatgc tgacagggat ggcataatca acatgcatga 3060

ccttcacaga ctgctcctgc atctactgct taatctcaaa gacgacgagt ttgagcgctt 3120

ccttggcctt cttggcttga gacttagtgt cactttaaat tttcgggaat ttcaaaattt 3180

gtgtgagaag agaccatgga gaacagatga agcgcctcaa agactcatta gaccaaaaca 3240

gaaggttgcg gattcagaac tagcttgtga gcaggctcat cagtatcttg ttaccaaagc 3300

aaaaaacaga tggtcagact tgtctaagaa ttttctagaa accgataatg agggcaatgg 3360

cattcttcga cgccgggaca taaagaacgc actgtacggt tttgatattc ccctcacacc 3420

aagagagttt gaaaagcttt gggcaagata cgacaccgag ggaaaagggc acattactta 3480

ccaggaattt ttacagaaat tgggtattaa ctattcgcct gctgtccatc ggccctgtgc 3540

agaggattat ttcaacttca tgggtcattt tacaaagcca cagcagctac aggaagagat 3600

gaaggagctg cagcagagca cagagaaggc tgtggcagcc agggataagc ttatggaccg 3660

ccatcaagat atcagcaaag cattcaccaa aactgatcaa tccaaaacca actacatatc 3720

catatgcaag atgcaggaag tgctggaaga atgtggatgt tctcttaccg aaggggagct 3780

gacccatctg ctaaacagtt ggggagtcag ccggcatgat aatgctatca attacctcga 3840

cttcctgaga gcagtggaga acagcaagtc aacaggagct cagcccaagg aaaaagaaga 3900

gagcatgcca atcaattttg caacgctgaa tccacaggag gctgtgagga agatccagga 3960

agtagttgag tcctcccagc tggctttgtc cacggcattt tctgcattgg ataaagagga 4020

tacaggattt gtaaaggcta cagaattcgg acaagttctt aaggatttct gttacaaact 4080

aacggacaat cagtatcatt atttttgag gaaactaaga attcatctaa ccccctatat 4140

aaattggaaa tattttctcc agaactttag ctgtttcctt gaggagcgag gcctgagtgt 4200

cctcatgcac gagtcacaag gagcctctgc tgatcctgga attgctggac caaggagaga 4260

acattcctaa 4270

<210> 85
<211> 468
<212> DNA
<213> Homo sapien

<400> 85
agctaattct agagaaatta agcaaaagta tttttcttaa tatttttcct gaaacatttt 60

atgccatgct attgcttaga taatatataa tgtaatagca aaaagtcttt tccaaaatta 120

aataacttta aattatattt aaaaattctt taaaaccttt gtaacctatg taattcattg 180

tgaattgtta attattttaa tgataggtag ttactttgat ttctctgaag tagcatgatc 240

ttgaggaagc cagagtcagt attcacacat gtcccaacag ggcttcttta gactatttgg 300

aatatattct ttgcctgcaa gacctgttaa ctcttcaagg ttttctgtat cttttcaaat 360

tggaaccact agaaaccacc agcttcttag ttatacctta gatatgctac accattttga 420

tgtagttggg tttgattact acaagattga tcccaactat taatacat 468

<210> 86
<211> 508
<212> DNA
<213> Homo sapien

<400> 86
attttactca tcagaaggct tcactaggag atcacagagt gggaaataat atgttaatga 60

aatgttatat taagccaagc aaattatact ttaatattta tagtatctca ttgaaaaaat 120

aaaactctat atgagtgtgt gttttgttta ataagcaac tacagaaaac atacatatga 180

acacacaaaa gagacactat gagattataa aagtgaagga atagtttatg agcctctgag 240

ctgcttaagc ttctaaaggc tgatagagta ggtaactaga aatgttgctt attatttcat 300

tctttaaaaa cattttcaaa agttagtttg aagtctgcct ggaaactgtc tggtgaagat 360

gatcaaggca atgaaaagga aactattaaa atctttaaaa tcttccttat tccaaatcca 420

cactgttgta ttgtcatatt ggcttcatta aaacaagaaa ttttattcat cagaagacct 480

cactaagaga cagagagact gaaaaagg 508

<210> 87
<211> 868

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (727)..(727)
<223> n=a, c, g or t

<400> 87
aacagacaag tccagagatc caaggaaagg ccagaagatt aagagtgtgg aagttttgag 60

gaaaagggaa tggagggagt ccattagaga aaaggataag ataaaataca ggccaggccc 120

aagtcctaaa caacacccag tattttgtca tggagtatag aaagggagca gccagtgaag 180

cagaacgaaa tcaggctctg gaggccttgt gcaagccatg agcaaagagg cggtcagccc 240

tgcaggtgat gcgggcaggt aagaaaagga cagaagggac cggaccgctg gatgcaacaa 300

cttggagctc actggtgagc tcagtgatcc acgtcagtgg agacagagcc tgacgggtta 360

aaagtaaatg gaaggtgagg atgagagaca tcacatatgc agacaattct cttagtgact 420

aattccatat aatcagcaat tactaagaaa ttctaggcct tgtggctgca tggctgtgac 480

tccctgtggt ttggtctgat tacagctcct ctgaaaggtt tcctggccag ctgtgaagcc 540

actcacagcc tcattgagac tgggctctcg cccgatgact cctgcagctc ctcaattgga 600

ctctaatcac agagtaccgc tgctggcctt tttattttag ggagaatata acctccttac 660

tgatggctca cgaagccgca ctgccaggct acccaggtac accaacaagc accacttccg 720

aggcttnttc gctctgccca gcgtactggc aagccacctt ggttttcaca ttacctttaa 780

attcacacca cgaggctgcc tcttaattcc ctgtgtatat tccactgcct tgaaacgtac 840

cacattacgt ttcaattaaa aagaatcc 868

<210> 88
<211> 896
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (755)..(755)
<223> n=a, c, g or t

<400> 88
aatcgcagat gccagttaag aggccgcaaa cagacaagtc cagagatcca aggaaaggcc 60

agaagattaa gagtgtggaa gtttttagga aaagggaatg gagggagtcc attagagaaa 120

aggataagat aaaatacagg ccaggcccaa gtcctaaaca acacccagta ttttgtcatg 180

gagtatagaa agggagcagc cagtgaagca gaacgaaatc aggctctgga ggccttgtgc 240

aagccatgag caaagaggcg gtcagccctg caggtgatgc gggcaggtaa gaaaaggaca 300

gaagggaccg gaccgctgga tgcaacaact tggagctcac tggtgagctc agtgatccac 360

gtcagtggag acagagcctg acgggttaaa agtaaatgga aggtgaggat gagagacatc 420

acatatgcag acaattctct tagtgactaa ttccatataa tcagcaatta ctaagaaatt 480

ctaggccttg tggctgcatg gctgtgactc cctgtggttt ggtctgatta cagctcctct 540

gaaaggtttc ctggccagct gtgaagccac tcacagcctc attgagactg ggctctcgcc 600

cgatgactcc tgcagctcct caattggact ctaatcacag agtaccgctg ctggcctttt 660

tattttaggg agaatataac ctccttactg atggctcacg aagccgcact gccaggctac 720

ccaggtacac caacaagcac cacttccgag gcttnttcgc tctgcccagc gtactggcaa 780

gccaccttgg ttttcacatt acctttaaat tcacaccacg aggctgcctc ttaattccct 840

gtgtatattc cactgccttg aaacgtacca cattacgttt caattaaaaa gaatcc 896

<210> 89
<211> 229
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (101)..(101)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (113)..(113)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (184)..(184)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (202)..(202)
<223> n=a, c, g or t

<400> 89
caaaagtctc tcttccagct attttataat atattatacc tcctagaaac ataaatgtat 60

gctacaaaga aacatgtatc tatgtgtgta aacttaaaaa naattaatgg tanctttgg 120

gaagttttta ggagttgata tttatggtga agaaatatga agttcaggca ttctttgaat 180

ctancctcaa gttctttta anatatattc aagttcccag cactttggg 229

<210> 90
<211> 234
<212> DNA
<213> Homo sapien

<400> 90
cttatgaccc aaatttttag taggctgtta agaagatgcc atgtcttttt tccactagca 60

ctttcaattt tctaaccaaa ataaaatgtt atgtcttctc caaggctgac cttttacctt 120

ctagtctcag ttttggctca agccattacc agcactccca tcccccaacc ctaaaatgaa 180

acttctcttc tgtttgttat ttctcttcct gacaatggat caacaaacat acat 234

<210> 91
<211> 326
<212> DNA
<213> Homo sapien

<400> 91
ttcaagatca ctgagagcat aaagagatca ctcagttgac tgttatgtgg tgacttgaaa 60

gtcttctttt ctaactttaa tccttctttg atcttatgac ccaaattttt agtaggctgt 120

taagaagatg ccatgtcttt tttccactag cactttcaat tttctaacca aaataaaatg 180

ttatgtcttc tccaaggctg acctttttacc ttctagtctc agttttggct caagccatta 240

ccagcactcc catcccccaa ccctaaaatg aaacttctct tctgtttgtt atttctcttc 300

ctgacaatgg atcaacaaac atacat 326

<210> 92
<211> 86
<212> DNA
<213> Homo sapien

<400> 92
acaggcgtga ccacccgtgc ctggcccacg ctgtccttaa ggagacactt tggtgcatac 60

acagctgctc agcaaaaccc gacttc 86

<210> 93
<211> 286
<212> DNA
<213> Homo sapien

<400> 93
gagcaaatga taaaacaagc aggattaaac gttaactgtg tgtcagtcta agaggaacct 60

ggctatcctt tgtaattcta ttgcagtctt tgtgtaaatt tcaggttact tccaaattta 120

gaaaaaaatt aagtgaacac atatattgac ccaaagttag acccattctg taacatgaaa 180

atacaaggca aaaatatata taatacaact atgttaaaag acccttttt ctatcttacc 240

taaaacttaa catctccaat gattatccat taataagctc ttttta 286

<210> 94
<211> 455
<212> DNA
<213> Homo sapien

<400> 94
gataaaagta atgtattgat gtaaatttac tgcagttgat aactgtatca tggttgtgta 60

aagtattaat aatatcctca ttattgagaa atgcatattg aagtatttag aggtaaagaa 120

gagtaatgta tgaaattgaa atgattcaag aaaaatttgt gtatagaaag agcaaatgat 180

aaaacaagca ggattaaacg ttaactgtgt gtcagtctaa gaggaacctg gctatccttt 240

gtaattctat tgcagtcttt gtgtaaattt caggttactt ccaaatttag aaaaaaatta 300

agtgaacaca tatattgacc caaagttaga cccattctgt aacatgaaaa tacaaggcaa 360

aaatatatat aatacaacta tgttaaaaga ccctttttttc tatcttacct aaaacttaac 420

atctccaatg attatccatt aataagctct tttta 455

<210> 95
<211> 158
<212> DNA
<213> Homo sapien

<400> 95
ttttaaataa acttttttgtt tgattacaac atgcatagtg tacaagtcat aagggtgccg 60

cttgatgaaa tttcacagtg accccagctg tgtacccagc atccagatca acaagcggga 120

ttacaggcgt gggccactgc gcctggcaaa ttgagcac 158

<210> 96
<211> 262
<212> DNA
<213> Homo sapien

<400> 96
gtttttctgt gatgtgtacc taggaatgga agtgctgagc tctgtgtata cggcccttcc 60

tcatggttct aactactaga gctttatagt aagtcttggt atgtggtaag acatgccctt 120

cctccctctt ttcaaagtgt ccccaaaagg ctatacctag gtctttattc ttccttaaga 180

atttttcaac tgcattagat gttgccacct tatcttccaa agctgttgtt gcagtttgtc 240

tttctcccag tgatatataa ga 262

<210> 97
<211> 87
<212> DNA
<213> Homo sapien

<400> 97
atgagaaacg tacaaagaaa attttataat aagcgagttc agcaaggttg caagataaaa 60

gataagcata taaatagcag ttgtatt 87

<210> 98
<211> 230
<212> DNA
<213> Homo sapien

<400> 98
gttcaggata aaagctttag ggctgattct ccctcatggc acacattcac tgggcatctg 60

ctctttggca ggccctgtta taggtctggg actgcaaagc taaggcctgg tagtgtgact 120

acccggaata atcaggaaag gcatcaccaa ggcagcagta gctgtgctgt gatcaaagaa 180

tgcacagggc ttgtagctac aggagagaga gaacagtggc aattccaggc 230

<210> 99
<211> 144
<212> DNA
<213> Homo sapien

<400> 99
gccttcattt ctagtggagc attcccaggc caaattaggt gaagggtctc atttcctagg 60

atttcttcac aggtggcatc cgtcctcaga tgggctacct aggactaggg atggctgcag 120

gtttcaagga gcgagtagtt gaat 144

<210> 100
<211> 469
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (454)..(454)
<223> n=a, c, g or t

<400> 100
gactaccaca caaggttatg catgttgtgc gatgttcagc tgtaggtggg gcgatactca 60

aatcgtagcc taggctgcta gtctttacat gcacagtgtg gtttagatgt gtgcttaatt 120

ctcacagaag ccctacgggg caggcattcc cgttttacag atgtggaaac aaactatgag 180

ggtaagaatt tggccagggt ttcacagcta ggatatggag ttgctgggat ctgaccgcag 240

tcctgtttcc ttcctaatcc attggctgcc caccaggctg ccccacgggg tgtccctggg 300

cagtcgctta tctatactat ctacctttac atacgttgat tggctggctg aggtgagtac 360

actaggactt gactggaaaa ttttacaaac caagaaagca agggattctg ttcctcctac 420

ctcctagctt tctgtctcct agggaaagag aaanattaca aagaagaaa 469

<210> 101
<211> 200
<212> DNA
<213> Homo sapien

<400> 101
gggatgaatg gcagacttta actggatgct ttatttaggc ttttcgaaag caaaaaaagt 60

ttatacattg ttacagctgg gtgttgggtt acaggctgtt tgttatattc atgtattagt 120

tcctgttatt ttaacatttt aaatatttca taattgaaaa aggaaaaatt agactgggac 180

cagtttatag aaagctttaa 200

<210> 102
<211> 461
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (145)..(170)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (403)..(403)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (435)..(435)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (444)..(444)
<223> n=a, c, g or t

<400> 102
gggagaaaat agtgttgtat gggagtaata tatttctatg tctctctggg atcaagctga 60

gatcaatatg tactgggatc aagtacatat tggaagctga ttctgtaaat taagatatac 120

atggtaagcc ctagagtaac ccctnnnnnn nnnnnnnnnn nnnnnnnnnn acctcaaaaa 180

acatagtgag ataaataatt taaattcttc attaggaaat atttacttaa tgcagaagaa 240

agcagtaagg gaggaataga agaacagaaa aatacatgag acacagtaaa ccaaaagtaa 300

aatgacagct ataaatccaa cttatatcaa acataacatt aaatgtgaat ggattaagga 360

atctgatcag aatgcagaga ttgtcagatg gattaaaata atncaataag gtccaactat 420

acactgtctg taggncacac atgntagacg tgatgtttat a 461

<210> 103
<211> 319
<212> DNA
<213> Homo sapien

<400> 103
gcttgcctta aggaacatga caaggatctg ttgtaagatc cacttcctaa agtgcttaaa 60

gaaagaaatg gaaatctcaa gctaaggctc cgagtcactg tgagggagac tttccccctc 120

cagtctattc tgtagtaaca gaataaattt caaaataatt atttttccta attataaata 180

gaagtaatat cagctaattg tttaaagttt ggtaaatatt ttttaaatgt gaaaaaattc 240

ctctaatttc actcctaaaa ctcctttaac aatttgggta tctccagcct aggcaacaag 300

agtgaaactc tgccacaca 319

<210> 104
<211> 563
<212> DNA
<213> Homo sapien

<400> 104
tattaattaa gtactcgcta agtgctaacc accataccaa atgttggaaa tgtagtaatg 60

agtaggacat gtgtatatgg tccatacctg aaaggaagtt attctagtag gagaggtgat 120

ctatcaacac ataattacaa catgtgatat gagctatgaa cacttatgaa caaacagggt 180

gctgtgtaaa agaataaagg aacaaagatc tgtgtatagg agttttctgg aaaatgtttg 240

gattcggcag tcattttcaa aggcagaggg cattgatagc agtatcttaa catggaaaac 300

attaaaacta actagatatt agtattctat ttccaattca aaaataacca gaagatagtg 360

atgttgtttt gaatatagga tgtcaatctt tgtgttaatg tgttttgaaa aagcaagact 420

taattgaaaa tatacatcaa attataattt cagtgtatta aaaaactgcc tgtttaaata 480

tgtccttttct ttgctgtaaa ttttggttaa aatctattgg agttacgtcc ttgtggtgaa 540

gtacacccta cccccaagag agc 563

<210> 105
<211> 1041
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (140)..(229)
<223> n=a, c, g or t

<400> 105
ggtaagtcca tgatgttgat gttttgttaa catacccggt gtaggactat ggagcctatg 60

tctcagaaaa taaaacttga ataataatag aaaacaattt ttcatataaa aaattatact 120

taagtataaa aatgtatacn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnt gtgtatatgg 240

tccgtacctg aaaggaagtt attctagtag gagaggtgat ctatcaacac ataattacaa 300

catgtgatat gagctgtgaa cacttatgaa caaacagggt gctgtgtaaa agaataaagg 360

aacaaagatc tatgtatagg agttttctgg aaaatgtttg gattcggcag tcattttcaa 420

aggcagaggg cattgatagc agtatcttaa catggaaaac attaaaacta actagatatt 480

agtattctat ttccaattca aaaataacca gaagatagtg atgttgtttt gaatatagga 540

tgtcaatctt tgtgttaata atgtgttttg aaaaagcaag acttaattga aaatatacat 600

caaattataa tttcagtgta ttaaaaaact gcctgtttaa atatgtcctt tctttgctgt 660

aaattttggt taaaatctat tggagttatg tccttgtggt gaagtacacc ctacccccaa 720

gagagcaaat gatgaataaa tcagtagatg ttccatgaat gcaatgttgg ctgagctggc 780

cacagtggag tgtgatcacc tggttatagg agaatagcca gcaggttata tttcataatt 840

atatttttcc ttaaattttt gcattaatat ttaatagcaa taattaaatg aattccagac 900

tgaatagaca attttattca ttgaataaac attgagaatt gcctactgag gcctgggctc 960

taggaattcc accaagaata aaaaaagaca tggtgttttg ccctcaaatt gcttagaatc 1020

tattcaggcc acttagtagc a 1041

<210> 106
<211> 451
<212> DNA
<213> Homo sapien

<400> 106
tggcaaatat gtttttaaaa tggagaggtg tgcaggaagt gagccagcaa ggaaggagaa 60

tataagtcgt ctttttgca ggatgcaaaa ttgggtttat ttgcagactg atgtgttacc 120

ttctaaagga ctagccacaa cgtttgaccc tcaatctaag gtcaacactg ctatccattg 180

ctcacagacc agagtgcatc tcccatgagg caaaagagca ggtgtgagaa gtgggtaagc 240

agtctgtata ttgggggtgt ggtggatggc ataggggata actcagtcta atgaaagaca 300

tcaatgtgcc attgggaaag gacagaggtt gccccctctt tcccccagat agtcgcccag 360

cttataaatg catagatctg ggacagagaa taagggtcac ctaggttccc cctaatcaca 420

ggcgggacta ggacttttgg agatgtctca c 451

<210> 107
<211> 103
<212> DNA
<213> Homo sapien

<400> 107
atcttgggcg gtctgaaatc tgagatactg tggaaagaac agaaagatcc tgtatctttc 60

ctataattgt tctactggaa gttgtcattt tacacaggag aca 103

<210> 108
<211> 979
<212> DNA
<213> Homo sapien

<400> 108
agcgggggggc ggcctgggac tcgggggcgg ggtcagtcat ataaggctgt gcccagcgct 60

tttggaagca gtaagtccag cccgaggcta aggaggtgtt aaccaccgaa ggggggtaga 120

atgtttttcc ccaccagagg aggcagcgac cacgtctcct ctatggaggc attcaagagc 180

cgtccagctg aagcagcatc actgtctgag ctcggaaggc acaatccaca taggtctgca 240

tggtccacag agctgcatac ccacggggcc agcgggaggt gggcagctgc cgggctctct 300

tctgaagcag acaggatctc actctgttgc tgaggctgga tcacagctcc ctgcaacctt 360

gaactctccc tcaagcaatt ctccccactc tgccttccaa agcactagca ttataggcct 420

aagccaccac tcccatccac tgtagtgtaa actgtctcct tcaatgtttc caatagttgc 480

ggagcagatc agataagggt tcttcctgtc tgttgcttca agtttcattc tctctttaaa 540

caatacaagg ttggcttcca tggttccttc ttaaagaatg ttgaaggtgt gtcttcagat 600

tcatttagtg ttcgtggaac cccagggaaa gctgatgtaa aaacctcttt tttctcccat 660

atgtctcaaa aagttgtatt ttctgggtcc aagggatctg caagcctcct aaaggcattt 720

ccattgtcac taccaccagg tgtgaactgt aatctggcac gtatagttcc aagaactgtc 780

ataatagatg ctgaagaaac attgtgaagt taactcgctg ttaccaactg tgaagtcatt 840

agctagagga atcttgggcg gtctgaaatc tgagatactg tggaaagaac agaaagatcc 900

tgtatctttc ctataattgt tctactggaa gttgtcattt tacacaggag acattctgtt 960

ttatttattt tcttttgag 979

<210> 109
<211> 668
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (583)..(583)
<223> n=a, c, g or t

<400> 109
tatcagcctt taaggtttat tgtcccacaa tggctgtgga gttaaaaaaa aaaattcagt 60

gagtttggat ataagattat tatttaatga ataatcataa cataggaaaa catatcaaaa 120

catagggaaa accaacataa atagtcttca aaagacacta gttcttggta tattcacata 180

accacctttg tgaatgcagc acattaatac atctgtcata tagcacttta aaatggccaa 240

ctttttaagt gcttttatac tgtattctct ccacaatgat gtgactttcc aaaatttttcc 300

actgaaaaag atgtaacctt gcaatgtggt ttagtatgga acttactttg cactgtatct 360

ggcggttgaa ttttgctttt attgtactgt ggacttgtga ctaaggcaaa taaaacttaa 420

gctcacttaa tttaaatatc tcaaaataac atttaggaaa aggtgcagtt tttctttgct 480

tcagaatggg tttttatcac aaaggaatga gtgagacatt tatttgtgct gggacttctg 540

cacagtcatt gaatgctgtg agtgaatgtt aagtgaaaat tcntggtcaa ggggaaaacc 600

aaggtttcct ttccagggat aattcctacc caaattacct acctggaaag gggaggaatg 660

gccgagcc 668

<210> 110
<211> 1112
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (17)..(17)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (27)..(27)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (59)..(59)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (1027)..(1027)
<223> n=a, c, g or t

<400> 110
aaaaatgcca ggccatngta ggggatncca gtcctatgcc ctttatgcct tcccagtcnc 60

aattaagacc ttgattgagc tgcagtacct ttaaaaagga ttagaagagc tattgaatga 120

cttaatttat tagaagtttt taagtgacag catttctaat tattcaagtg catttatttt 180

tcatgaaaaa aggtagaatg atttgttctg acataaagta aatagtgttg atgcattaga 240

aattgtgtgt cttgattatg atttctgtac tttttgcatt agaagtataa tggacttgta 300

tttttaaata gttgaaacta gcactgtgat catattaaat aatgcatttc tcagtttgga 360

cttcagatag ggattcattt gttgatattt tctttcttct ctcccctgct aacataaaca 420

cttttctgaa gcatatagtt atgatatcag cctttaaggt ttattgtccc acaatggctg 480

tggagttaaa aaaaaaaatt cagtgagttt ggatataaga ttattattta atgaataatc 540

ataacatagg aaaacatatc aaaacatagg gaaaaccaac ataaatagtc ttcaaaagac 600

actagttctt ggtatattca cataaccacc tttgtgaatg cagcacatta atacatctgt 660

catatagcac tttaaaatgg ccaacttttt aagtgctttt atactgtatt ctctccacaa 720

tgatgtgact ttccaaaatt ttccactgaa aaagatgtaa ccttgcaatg tggtttagta 780

tggaacttac tttgcactgt atctggcggt tgaattttgc ttttattgta ctgtggactt 840

gtgactaagg caaataaaac ttaagctcac ttaatttaaa tatctcaaaa taacatttag 900

gaaaaggtgc agtttttctt tgcttcagaa tgggttttta tcacaaagga atgagtgaga 960

catttatttg tgctgggact tctgcacagt cattgaatgc tgtgagtgaa tgttaagtga 1020

aaattcntgg tcaaggggaa aaccaaggtt tcctttccag ggataattcc tacccaaatt 1080

acctacctgg aaaggggagg aatggccgag cc 1112

<210> 111
<211> 1041
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (829)..(829)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (944)..(944)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (946)..(946)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (976)..(976)
<223> n=a, c, g or t

<400> 111
gtcatcgtgc agttgtgatt taatttacac tcaatcacag ttcttgaata aattcttgaa 60

taaattgcaa aaccttgaga attacattat ttttatcaag tgctatcata tgtactaggc 120

tttttgtgca atttgacttc agatgttaat aaaacaaatc agaaaaaact aaggtgtata 180

tttccaactg tggcttgctt catcatttgt gagactatgt catacatttc tacttttaga 240

cataacagaa gcagagagat tatatctcaa gctaatatga ggtttttaaa atcgtattat 300

atattcagcc tcagccagca tatcattttg gtggaggggt gggtacagat gattcaatat 360

tgtagtaatg tttgcttctg aatttttttt cttagttatt tgtctggtat gggatcatgt 420

agctttttc tctttaactc gggtaattaa ggttcacaca gtaaagtcta tgcggtctaa 480

agctttaagg cggaggttgt tatctgttaa tgtgatggct ggtgccatca ggctctagac 540

gtttcttgtg tcatgtcctg ggtttccctc ctggagaagt ccagtgaaaa agcatagctt 600

ttggagttgg tcagacttgg gttacagcgc cacactgcca ctcactagct gggggggcttt 660

ggccaactac caaactctga tctccgtttc ctcacctata gagtggagat gataaaacta 720

tattttattg attctaagat gcacagtttt tcaattttaa tctcttggaa atcagaatgt 780

atcttaccgt tggtgggtcc catataattg acagctgttt ttctttctna gaggtatgtg 840

caataatgat acatcttata atcagtggtg tcttagagtt gatgaattat ggtatttgcc 900

taaagaattt ttataaggat taaaatgtat tattcaagtg cttntntttc actatggcat 960

ataaagaggc cagggnctgg aaaatgctca ggtgcatttc agttttgagc ttataaaact 1020

gggtagataa catgactagt g 1041

<210> 112
<211> 1380
<212> DNA
<213> Homo sapien

<400> 112
tcgtgcgcgg taagaagctg cgcggtagcg cggtgaggtg tgtttccatt gtagaaaacc 60

tggtcatgga attgcagatt gccccgccgc ccttgaaaat caagacatgg gcactgggat 120

atgttacagg tgtgggtcca cagagcacga aataaccaag tgtaaggcta aagtagaccc 180

ggctcttggc gaatttcctt ttgcaaaatg ttttgtttgt ggagaaatgg ggcacctgtc 240

tagatcttgt cctgataatc ccaaaggact ctatgctgat ggtaagtact gttaccctca 300

tatagcagaa atggtgagtc atcgtgcagt tgtgatttaa tttacactca atcacagttc 360

ttgaataaat tcttgaataa attgcaaaac cttgagaatt acattatttt tatcaagtgc 420

tatcatatgt actaggcttt ttgtgcaatt tgacttcaga tgttaataaa acaaatcaga 480

aaaaactaag gtgtatattt ccaactgtgc ttgcttcatc atttgtgaga ctatgtcata 540

catttctact tttagacata acagaagcag agagattata tctcaagcta atatgaggtt 600

tttaaaatcg tattatatat tcagcctcag ccagcatatc attttggtgg aggggtgggt 660

acagatgatt caatattgta gtaatgtttg cttctgaatt ttttttctta gttatttgtc 720

tggtatggga tcatgtagct tttttctctt taactcgggt aattaaggtt cacacagtaa 780

agtctatgcg gtctaaagct ttaaggcgga ggttgttatc tgttaatgtg atggctggtg 840

ccatcaggct ctagacgttt cttgtgtcat gtcctgggtt tccctcctgg agaagtccag 900

tgaaaaagca tagcttttgg agttggtcag acttgggtta cagcgccagc actgccactc 960

actagctggg gggctttggc caactaccaa actctgatct ccgtttcctc acctatagag 1020

tggagatgat aaaactatat tttattgatt ctaagatgca cagtttttca attttaatct 1080

cttggaaatc agaatgtatc ttaccgttgg tgggtcccat ataattgaca gctgtttttc 1140

tttctgagag gtatgtgcaa taatgataca tcttataatc agtggtgtct tagagttgat 1200

gaattatggt atttgcctaa agaattttta taaggattaa aatgtattat tcaagtgctt 1260

ctctttcact atggcatata aagaggccag ggcctggaaa atgctcaggt gcatttcagt 1320

tttgagctta taaaactggg tagataacat gactagtgag caaaaatggc tttcactggt 1380

<210> 113
<211> 393
<212> DNA

<213> Homo sapien

<220>
<221> misc_feature
<222> (163)..(163)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (191)..(191)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (198)..(198)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (206)..(206)
<223> n=a, c, g or t

<400> 113
gcactgcagc cttaaacagg cacaattttg tctatacttc cagaacctag attattctga 60

aatctttaac aacataaggt ttagatacca tttgcattga gtacccacta ggtgccgact 120

cttttaaagt gcatttttag tttcattatc tcaactttgt aangttggca tcattattcc 180

cattttacag nagataanat tgaagnaaag tcaagtttag gggattttca aggttgtaca 240

gtacaactgg gtgacaaaat ttttgctctt tcaatgataa tgaggcctct gacatcttcc 300

tttctcataa gactacattt agtataactt atatatttta tcagtcaaca actatctttt 360

gagaacttgt acacccagga ctgtgtaatg ggc 393

<210> 114
<211> 440
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (95)..(291)
<223> n=a, c, g or t

<400> 114
gtccttttat tattcttttt ttcttatatt tttattgtgg cacaaacttt atactaaaag 60

gaaaaggaga ttcattgtga atacatgata agtgnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn natgatatca 300

aactaggttc gtcctgccca cgtgcagcaa gccaatcact atgatgatgg gttttgccaa 360

aagagacaag attttattca tagggctgct gaatgaggag acaggagagc aaatcccaaa 420

tctggcaccc tgaaaatagg 440

<210> 115
<211> 791
<212> DNA
<213> Homo sapien

<400> 115
gaaatccaaa caactgccat tgatttattc atttatttca caaatattta ctgaacgcat 60

ccagcatgct ctgtggggtg ctgtgctggg gctgggggtg ccaggatgag aaacagccgt 120

gtggctgtgc tcttggcttc accagccaga cgagtgttgc ctttgcaagg agaaaggact 180

cacaaggctt acacatttgc tgccctcagt tttgcccttt ctcaaataaa tctcacacat 240

ccaatctcct tgttgcccat tagggagtat ataatgaaat taagtaaatg aggaattgcc 300

taaaactaag ggagtttcac ctccatgtag gtagaagaat gtgaaatggt ctgtgtccag 360

aagccagatc agaaatggtc catagcaagg tggggagggc agcgggtacc cacctggcag 420

tgtaggggtg tggattcagc ttcatcttcc tgacccctg tcaagtggac aagctccagc 480

caaacaaagg aagtgtgttg gagtggccac cagcacagaa gtgtaccttt ctgggtaatg 540

tgtcacccag tcccctggcc atgtgagagg acaggcacag ttgccacaca gtactaatag 600

ttggtctctt ctttaagggt caaaaaaaag gaggtggagc acttttaaga aagtgttaag 660

gttccatgaa gatgttatgg tggcgtgctg gcaggtgcat atcaaccctg ccctgaggcc 720

ctcagcagcc ttcggtctcc ccaaagcaat atggctcctt ataaagaagt cttttagggc 780

tgggctcggt a 791

<210> 116
<211> 4351
<212> DNA
<213> Homo sapien

<400> 116
cggcccagca aagttcttga caaagtaaag aagccaatta caagaaaatc tcagtttgca 60

aagggacaga attcgtctca cttattcact gcttattgtg tgcctctcgt gtttttttctt 120

cttgtgggtc ggtgtatttg atgctggtta gtagagacaa agaagaagga caaacaggat 180

aaaggtggat ctttggtgtg gaccctctgc actgcgaaag aagccacatc accgccaatg 240

tggaaaatat gcaaagtgcc gttaggaaga aggaaggata tgtgtgcagc atatgaagtg 300

ccttgaatac gattaacttc ccttcatgag tagtaaatag tagataactc tgatcaaaaa 360

agggattcat gtgatttatc aagctgagca actgcgcgtc tgcagagaag ctggaggtca 420

atcttgaaat ctagggcaag aggagcacta ggcaattgcc aggactaaga agttaatcat 480

acccttggac tgcttccatc tgtctcagag tgacagcgct gctctcagcg agcaggcatg 540

ctttatagca gcagatcagg aattaatatt ttctgtgaaa cctcaagcat catttgcagt 600

aacttgggtt ttataaaaat ggaacataat tttatatgaa taaatcacgt tcagctagaa 660

atacgagagg ctgcaaaaaa ttatgcttga cttaaaaaaa aagagagagg aacgagcaaa 720

aaagccaaca tgaaaacagt tgttgaagcg atggcacttg gagggcacag atagccatgt 780

ggttaaattg tgcatataat catctgaaat gtcagcctgc gactccagca acggctacat 840

ttttatagcc ttggagatgc atcaccagac tgtaacctgt ctgcccatct ggcagtatct 900

caggcccaag atccatttat attgaaatcc aaacaactgc cattgattta ttcatttatt 960

tcacaaatat ttactgaacg catccagcat gctctgtggg gtgctgtgct ggggctgggg 1020

gtgccaggat gagaaacagc cgtgtggctg tgctcttggc ttcaccagcc agacgagtgt 1080

tgcctttgca aggagaaagg actcacaagg cttacacatt tgctgccctc agttttgccc 1140

tttctcaaat aaatctcaca catccaatct ccttgttgcc cattagggag tatataatga 1200

aattaagtaa atgaggaatt gcctaaaact aagggagttt cacctccatg taggtagaag 1260

aatgtgaaat ggtctgtgtc cagaagccag atcagaaatg gtccatagca aggtggggag 1320

ggcagcgggt acccacctgg cagtgtaggg ggttggattc agcttcatct tcctgacccc 1380

ttgtcaagtg gacaagctcc agccaaacaa aggaagtgtg ttggagtggc caccagcaca 1440

gaagtgtacc tttctgggta atgtgtcacc cagtcccctg gccatgtgag aggacaggca 1500

cagttgccac acagtactaa tagttggtct cttctttaag ggtcaaaaaa aaggaggtgg 1560

agcactttta agaaagtgtt aaggttccat gaagatgtta tggtggcgtg ctggcaggtg 1620

catatcaacc ctgccctgag gccctcagca gccttcggtc tccccaaagc aatatggctc 1680

cttataaaga agtcttttag ggctgggctc ggtagctcat gcctgtaatc ccagcacttt 1740

gggaggccaa gggaagaaat ttgatctcaa attcagtcaa ccagtctatt caactgagga 1800

cccctcagca ggggttccct gtgctaaggc cctggtggca gtagccagtg gagagaaggc 1860

tctagccttg atacctctcc cttggttaaa acgtaattcg aagaagccta agctctctgc 1920

gcagcccgcc gcgcagcccg ccgccccagc ctgggcgaag cccctgacgg accaggagaa 1980

gcggcggcag atcagcatcc gcggcatcgt gggcgtggag aacgtggcag agctgaagaa 2040

gagtttcaac cggcacctgc acttcacgct ggtcaaggac cgcaacgtgg ccaccacccg 2100

cgactactac ttcgcgctgg cgcacacggt gcgcgaccac ctggtggggc gctggatccg 2160

cacgcagcag cactactacg acaagtgccc caagagggta tattacctct ctctggaatt 2220

ttacatgggc cgaacattac agaacaccat gatcaacctc ggtctgcaaa atgcctgtga 2280

tgaggccatt taccagcttg gattggatat agaagagtta gaagaaattg aagaagatgc 2340

tggacttggc aatggtggtc ttgggagact tgctgcctgc ttcttggatt ccatggcaac 2400

cctgggactt gcagcctatg gatacggcat tcggtatgaa tatgggattt tcaatcagaa 2460

gatccgagat ggatggcagg tagaagaagc agatgattgg ctcagatatg gaaacccttg 2520

ggagaagtcc cgcccagaat tcatgctgcc tgtgcacttc tatggaaaag tagaacacac 2580

caacaccggg accaagtgga ttgacactca agtggtcctg gctctgccat atgacacccc 2640

cgtgcccggc tacatgaata acactgtcaa caccatgcgc ctctggtctg ctcgggcacc 2700

aaatgacttt aacctcagag actttaatgt tggagactac attcaggctg tgctggaccg 2760

aaacctggcc gagaacatct cccgggtcct ctatcccaat gacaatgtgg ccatccagct 2820

gaatgacact caccctgcac tcgcgatccc tgagctgatg aggatttttg tggatattga 2880

aaaactgccc tggtccaagg catgggagct cacccagaag accttcgcct acaccaacca 2940

cacagtgctc ccggaagccc tggagcgctg gcccgtggac ctggtggaga agctgctccc 3000

tcgacatttg gaaatcattt atgagataaa tcagaagcat ttagatagaa ttgtggcctt 3060

gtttcctaaa gatgtggacc gtctgagaag gatgtctctg atagaagagg aaggaagcaa 3120

aaggatcaac atggcccatc tctgcattgt cggttcccat gctgtgaatg gcgtggctaa 3180

aatccactca gacatcgtga agactaaagt attcaaggac ttcagtgagc tagaacctga 3240

caagtttcag aataaaacca atgggatcac tccaaggcgc tggctcctac tctgcaaccc 3300

aggacttgca gagctcatag cagagaaaat tggagaagac tatgtgaaag acctgagcca 3360

gctgacgaag ctccacagct tcctgggtga tgatgtcttc ctccgggaac tcgccaaggt 3420

gaagcaggag aataagctga agttttctca gttcctggag acggagtaca aagtgaagat 3480

caacccatcc tccatgtttg atgtccaggt gaagaggata catgagtaca agcgacagct 3540

cttgaactgt ctgcatgtga tcacgatgta caaccgcatt aagaaagacc ctaagaagtt 3600

attcgtgcca aggacagtta tcattggtgg taaagctgcc ccaggatatc acatggccaa 3660

aatgatcata aagctgatca cttcagtggc agatgtggtg aacaatgacc ctatggttgg 3720

aagcaagttg aaagtcatct tcttggagaa ctacagagta tctcttgctg aaaaagtcat 3780

tccagccaca gatctgtcag agcagatttc cactgcaggc accgaagcct cggggacagg 3840

caatatgaag ttcatgctaa atggggccct aactatcggg accatggatg gggccaatgt 3900

ggaaatggca gaagaagctg gggaagagaa cctgttcatc tttggcatga ggatagatga 3960

tgtggctgct ttggacaaga aagggtacga ggcaaaagaa tactatgagg cacttccaga 4020

gctgaagctg gtcattgatc aaattgacaa tggctttttt tctcccaagc agcctgacct 4080

cttcaaagat atcatcaaca tgctatttta tcatgacagg tttaaagtct ttgcagacta 4140

cgaagcctat gtcaagtgtc aagataaagt gagtcagctg tacatgaatc caaaggcctg 4200

gaacacaatg gtactcaaaa acatagctgc ctcggggaaa ttctccagtg accgaacaat 4260

taaagaatat gcccaaaaca tctggaacgt ggaaccttca gatctaaaga tttctctatc 4320

caatgaatct aacaaagtca atggaaattg a 4351

<210> 117
<211> 454
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (406)..(406)
<223> n=a, c, g or t

<400> 117
tgtcaataca atcgggggaa aggaatactt tgaactactt tgttggaagg agtttgaaat 60

cgttgaggac tcagcagcat gaagtagaga aattcacaat tggtagaaag gactattgtc 120

cttcaacctt cattaaggtt aactattcaa ccttcattaa aaacagaaag tgacaatttc 180

acagcaaatt ctagaacttt agatcaaaag tcaactcaat atgggggatt tatataagaa 240

agagttaaaa aaaagacgaa atgtaatatc tatgttattg caagtgaaag gaaaacagga 300

agataaatat cacaagaaga caaaaatgta tctaacattt tgggacaaga ttgtgggatc 360

cacagaaaat tggaacttgg aacttcctgt tccacagaga taaganatac cttgctttta 420

tctcacttct caaaaaagta agtgatgggg ttag 454

<210> 118
<211> 504
<212> DNA
<213> Homo sapien

<400> 118
tgtcaataca atcgggggaa aggaatactt tgaactactt tgttggaagg agtttgaaat 60

cgttgaggac tcagcagcat gaagtagaga aattcacaat tggtagaaag gactattgtc 120

cttcaacctt cattaaggtt aactattcaa ccttcattaa aaacagaaag tgacaatttc 180

acagcaaatt ctagaacttt agatcaaaag tcaactcaat atgggggatt tatataagaa 240

agagttaaaa aaaagacgaa atgtaatatc tatgttattg caagtgaaag gaaaacagga 300

agataaatat cacaagaaga caaaaatgta tctaacattt tgggacaaga ttgtgggatc 360

cacagaaaat tggaacttgg aacttcctgt tccacagaga taagaaatac acttgctttt 420

atctcacttc tcaaaaaaag taagatgaat ggggttttag gccccagaga cggacattgt 480

agctgcaatc aattgtacta tctg 504

<210> 119
<211> 407
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (385)..(385)
<223> n=a, c, g or t

<400> 119
aaaaaacagt ttggctatgt ttcagaagtc aaaaataagt ctgtaacctt tgacccagta 60

atcctatttc tggaagtcta aattgagaaa atgtggggta ctgaaaatct ctatttgcat 120

gaatatattt ataataacat tcgttatatt ctttatattc ataaaacatt ggaaacaatt 180

tttatggcca aaaatggatg aatagctcag taaatgacgg ttctctgcaa gcgatgtaat 240

agtatgcagt cagtaagcaa atacagaaga tactaagttg caacattaga atatataata 300

ttgtgtatta ggaagtcagg ttatcatatt taaattttga acaaaagtaa aggttagatc 360

agttcaattg agaaataggg gtcanttcag aaaatgttat tccatga 407

<210> 120
<211> 104
<212> DNA
<213> Homo sapien

<400> 120
taaagaagtg ggtatcaggg actcctgtga gatagcatga gaaggtggta catttgggag 60

gtctcaaggg gttactgaat tattggaatt agaatcaaag ggac 104

<210> 121
<211> 149
<212> DNA

<213> Homo sapien

<400> 121
tacagcaata gataattaat acttaattat ctaattaata catattaata ttttggcaac 60

atacactatg ttcctaaggt acctcggaaa atcctcagaa ccatgtgttg caaatggcaa 120

tgctgtggta caatggggtc tcctaggca 149

<210> 122
<211> 419
<212> DNA
<213> Homo sapien

<400> 122
ggaaatgtgt ttagttgtca tataaaagga aaatgcagtt taaaataatt tcagtaattg 60

cattcttgag ttttctgtcc tccctggtac catgaaactg gagatctttg gagacctatc 120

acagaacatg tactggaatt gtttgtgtgt ggagtaaagg cagctgtttg tagccatcta 180

gttgggaact gtctttcctt ggatagttag ctactctgtt ggtgtgtggt gtaacactta 240

cctgttgctg gcacgtagtc agtgatttct gtcatgtata agtaggcctt gccattgtca 300

gcaggtaatg atcttggaaa gaccaacttc tgttaatgta atccacaatc tagtgagggg 360

attatagcta tcaaacatat ttctcagtcc acttttaag aagtagtcat ttaggctgg 419

<210> 123
<211> 691
<212> DNA
<213> Homo sapien

<400> 123
aaagagacag ggtcttgctc tgtcacccag gctggagtac aatgacgtaa taatagctca 60

ccgcaacttc gaactcccgg gctcaagcaa tccttctgcc tcagcctccc aagagctggg 120

actacagaca tgtgctacca catccagctt ttttatttt tgtagaggta gggtctccct 180

atgttgccca ggtgggtctc acactccacc tcaagcaatc ctacagcttc agcctcccaa 240

agagctagaa ttacaggcct gagccactgc acccagccta aatgactact tcttaaaaag 300

tggactgaga aatatgtttg atagctataa tcccctcact agattgtgga ttacattaac 360

agaagttggt ctttccaaga tcattacctg ctgacaatgg caaggcctac ttatacatga 420

cagaaatcac tgactacgtg ccagcaacag gtaagtgtta caccacacac caacagagta 480

gctaactatc caaggaaaga cagttcccaa ctagatggct acaaacagct gcctttactc 540

cacacacaaa caattccagt acatgttctg tgataggtct ccaaagatct ccagtttcat 600

ggtaccaggg aggacagaaa actcaagaat gcaattactg aaattatttt aaactgcatt 660

ttccttttat atgacaacta aacacatttc c 691

<210> 124
<211> 476
<212> DNA
<213> Homo sapien

<400> 124
tagcacgtcg taaacgatga atagatatta gctttaaaaa tgatacttgt tattctgtgt 60

gctagatatc tagggaagtg aaggaaggac ggcaagggag gcagagatga ataaggcagt 120

gactaggccc catgggaggg agatcgcggt accacagctg aatggattgt ctcccctaca 180

ttgccattca gctaagagac attcagcaat ttattgaata agcacttctt gagcccctag 240

tgcatgcatc agacactgcg ttagggctgg gtgcacagca gtgaataaga cagacgtagt 300

tcttgctctc gagtgctcat ggtccaatga gggagacaga gggtgactgg gaacaacagt 360

ccagtgtgat aatgctagca tagcagcaga acaggggctg cacaaacaca aagaaggaac 420

atctaactcc caaatgaaaa gaggggcatt gacaaagtcc tcctagggaa aaagaa 476

<210> 125
<211> 491
<212> DNA
<213> Homo sapien

<400> 125
cccttagaat aatgtctagc acgtcgtaaa cgatgaatag atattagctt taaaaatgat 60

acttgttatt ctgtgtgcta gatatctagg gaagtgaagg aaggacggca agggaggcag 120

agatgaataa ggcagtgact aggccccatg ggagggagat cgcggtacca cagctgaatg 180

gattgtctcc cctacattgc cattcagcta agagacattc agcaatttat tgaataagca 240

cttcttgagc ccctagtgca tgcatcagac actgcgttag ggctgggtgc acagcagtga 300

ataagacaga cgtagttctt gctctcgagt gctcatggtc caatgaggga gacagagggt 360

gactgggaac aacagtccag tgtgataatg ctagcatagc agcagaacag gggctgcaca 420

aacacaaaga aggaacatct aactcccaaa tgaaaagagg ggcattgaca aagtcctcct 480

agggaaaaag a 491

<210> 126
<211> 752
<212> DNA
<213> Homo sapien

<400> 126
ctcagctgag aagcagacac attgtgaaat ggactccccc aaaagagttt catctgactt 60

atcccttctc cgcaataaaa tcttggattc tgggtgtgtt tgttttagat gctgtggtac 120

cggctggttt tagcaacaag gacagtgttg gtagggtgag aaacactatc ccaagtcata 180

tgtctgtgtg actacaggac atttcttttg aatgccacaa ggatgattta tatgattact 240

ggtgacaagc ctctgtctcc tgaagacagg ccaagataac gttagattga atttcaagag 300

atgaaagtga ggtttttaag taatagcaaa gccttgtgtt tctgtagtac tttgtgcttt 360

ttgaagtgct ttcacagtca ttatcctgtt tgatcctact aagaaccctg aaagtacata 420

ggttggtggt ttttatcctg agactacaaa tgataccaag gataacgatg agtaggaatc 480

agagctagaa ttaaccccta ttttcttact attgacccag catgctttct atgttgaaaa 540

gtgcaccaca tcgagaagag attggtcacc gcagcacagg gcacgcagaa ttccattagt 600

atcacttacc tgggaagtcc aggtgccttc aatagttgag gggagtaaat gatatgacta 660

cctaccttca aaacttgtag tttaaagtgg taacttgaat actcacattt acctctgttt 720

ccttcctcta aaagaatggt tttttaaagg gt 752

<210> 127
<211> 158
<212> DNA
<213> Homo sapien

<400> 127
aaaaaaaaaa aaaaagacag ttgggttgtc atatctcttc tgcctttaat ttgttgaggt 60

acctcatgtg tagcctttgg aatactcttc tgtatactgg tgagagaatt agagtgaaaa 120

aagcagataa catcttagtg ttattaatga aagtagta 158

<210> 128
<211> 642
<212> DNA
<213> Homo sapien

<400> 128
tttatttgtt tttccagctt tactgcaggt atgattgaca aataatgtct gtttgtaaaa 60

tttcagtcga gtcatagata ccaggtaagg cagagagtgg gagggagact gaggccttgg 120

tctggtgttg ggagcactgc agctcgagtc ttggagtcag gaggggttg ttgcacttcc 180

ctgttctgct ccttttcag ctttctggtt ccctgtagct tctggaactg attatttttg 240

tttctttaat gctgccctgt cttgtaaaag gagagccatt agcatcattt gttttcagga 300

gagaagcaga tttgaaggct caggaacttc ctgggaaagg tgacctcttt tgagccaaga 360

gctttacccc ctagtttttt gttttttttt tctcctgtct acctggagct gagaggttat 420

ccctttcaat ccctctcaag gtccagaatc accagctagg gttgggtctg cccctggagc 480

acagactcct cccttgggga ccccagagcc cttatcagta tatcagtaag agggcaagag 540

aacagagatt gtcagagcag aggaaacgtg tattctgtgc cccagcccca ctccatgaat 600

attcccctgt ctcaaagcac atacttaggc taagaacagg at 642

<210> 129
<211> 220
<212> DNA
<213> Homo sapien

<400> 129
cttttcttgg ggagaatttt ttttttatt tttagcttcc gattcttata gaaatgtaat 60

actaggcgat tcataattat atagacaagt ttttctgaaa tgttcatttg ttcatttatc 120

atttttaacc cagtctgctt ctaacaggtc ataagttaca ttccaagata tggatatgat 180

aaaactattg aatgaagtat taaaagaatc aagttcatgg 220

<210> 130
<211> 507
<212> DNA
<213> Homo sapien

<400> 130
tcattttgta tgaaagggga attttaggaa ttagctggag atagacattt gggaatagct 60

aggataaaga tagtaattgc tgattcacca aaacaaaaag aagtgttaga tttgaaaatt 120

ttgtaggaaa ccaccaggtt ctcacctctt gtggtgtgtg tgtatgtgct gtatttttt 180

ttaaactact gaaaactcaa gatctttgtt gttccacaga ttcagttctg tgtcttgtct 240

aattatgccc caggtatatg ataatgtaca gtcacgtttc ttagagtaac tcagaacatt 300

tatgacacag ggttatcttt acttctctag tctcagagtt tcacttagca ggtcatctga 360

gtgaaatcta agccagattc ctgtggatct taatgaaaag gtagtagaaa gtagtggcat 420

agcttgaaat ttaactattg tcagatattg gggcaaaaac catctgtata cctcatgggc 480

ctccagtaaa cacttgtaca ttatgag 507

<210> 131
<211> 760
<212> DNA
<213> Homo sapien

<400> 131
tcattttgta tgaaagggga attttaggaa ttagctggag atagacattt gggaatagct 60

aggataaaga tagtaattgc tgattcacca aaacaaaaag aagtgttaga tttgaaaatt 120

ttgtaggaaa ccaccaggtt ctcacctctt gtggtgtgtg tgtatgtgct gtatttttt 180

ttaaactact gaaaactcaa gatctttgtt gttccacaga ttcagttctg tgtcttgtct 240

aattatgccc caggtatatg ataatgtaca gtcacgtttc ttagagtaac tcagaacatt 300

tatgacacag ggttatcttt acttctctag tctcagagtt tcacttagca ggtcatctga 360

gtgaaatcta agccagattc ctgtggatct taatgaaaag gtagtagaaa gtagtggcat 420

agcttgaaat ttaactattg tcagatattg gggcaaaaac catctgtata cctcatggac 480

ctccagtaaa cacttgtaca ttatgagttt agattgttta aagtagattt cagtatttcc 540

agagtgaatt tagtgttact tgtgaggagg agggtgagaa tatgtatcta gttgagtgga 600

agtacttgtg tgtctacggg tcgtaacggc catgcaacac cacccacgga atcgagaaag 660

agtataaatc tgtcaatcct gtacgtgtcc ggaccgagtg aggtttcccg tgttgagtaa 720

aattaagccg cattctccac tcctggtgtt gcctaacgtc 760

<210> 132
<211> 214
<212> DNA
<213> Homo sapien

<400> 132
caagatttgg ggcaaggaga ccagttagga ggactaatcc agaagatgga tattgatgat 60

ttcctactag agatttagaa agaagactcg agtacctagc ttttcatgtc tctgtatttg 120

ttttctcctt ttcactgccc ttttttcttc cctcatttac ccctgtgttc tgtactgtca 180

cttgcttcca gttgtcaata tgttgatttc tgtt 214

<210> 133
<211> 479
<212> DNA
<213> Homo sapien

<400> 133
ccttaggata aaaattagtc ttcccaacag gagatacaaa gaccaccaga actggttcag 60

ttcctggctc tccattcaca tcattcattt tctctacctc agacttgaca ctccagtata 120

acttttgtt gatagtagtt cagtgggata gaccatcaat tgattgcata cctccatgct 180

ttgctaatgt tcttctattt atccaaaacc cttcccatgt ttttgcttaa acatcattca 240

tattccaaga ctaaagtcaa tgaaaatcta tatcaggatg attgtcctca atcttctggt 300

tggactacat gtctctcatc aattatactt tgtatcatca gtctgattca ttcaaatagt 360

ctgtgtatta tatgtgcctc aggctaatga ctattaatac ctgtatatta gaaaagaaag 420

cctggtgctt agtagaattt tgttaaatat ttgctcagct gaaccaatgc attaatact 479

<210> 134
<211> 270
<212> DNA
<213> Homo sapien

<400> 134
tagggatttc gtcacttgga agtaagaagg ttcagtcatc tttggccagc tttgtgttgt 60

gttgaaaatt agcccccaaa gagaattcct gcagaaggtc agggtctttg gggtatttct 120

acacttgagc ctctttcttt tttaagatga catacttgtt atagttgtca aatatggaca 180

ataacaggaa gccaaactca aataataata atagggtgtt acaaagccgt ggcacatggt 240

ccccactgta gtccagctgt ctggagctga 270

<210> 135
<211> 404
<212> DNA
<213> Homo sapien

<400> 135
acgcgtccgt gaaaaggaag aatacctatt acttaggtat tgggaaattg aaaatgaaga 60

atggaagaaa gagggaggga agagactgtt gtgtttctat ggagaacaac attggggccc 120

ttgactttag atttcagtgg ggacctacaa aaaggaaaaa tggaaaggga attctgaagt 180

cttaaggtgg gctatctgaa agttggatcc ctgggtgaaa aagattttat aatattagat 240

gagttgagag aaccaatgtg aattaaagct gactggctta aaaaaaataa acccatcaaa 300

attagtaagg gaataatgtt attcattgcc ttttttttcgt tgagttatga aagctcttcg 360

aagatgaagg ttttatgaaa ctcaagatct ctccagaggc cggg 404

<210> 136
<211> 553
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (446)..(446)
<223> n=a, c, g or t

<400> 136
acgcgtccgt gaaaaggaag aatacctatt acttaggtat tgggaaattg aaaatgaaga 60

atggaagaaa gagggaggga agagactgtt gtgtttctat ggagaacaac attggggccc 120

ttgactttag atttcagtgg ggacctacaa aaaggaaaaa tggaaaggga attctgaagt 180

cttaaggtgg gctatctgaa agttggatcc ctgggtgaaa aagattttat aatattagat 240

gagttgagag aaccaatgtg aattaaagct gactggctta aaaaaaataa acccatcaaa 300

attagtaagg gaataatgtt attcattgcc ttttttttcgt tgagttatga aagctcttcg 360

aagatgaagg ttttatgaaa ctcaagatct ctccagaggc cgggcacagt ggctcgcgcc 420

tgtaattcca gcactttggg aggctnaggt gagcagattg cgagtccaga agtgagcaga 480

ttgcttgagt ccaggagttc gagaccagcc tgggcaacat ggcaaaaccc ctgtctctac 540

taaaaaaaaa aaa 553

<210> 137
<211> 41
<212> PRT
<213> Homo sapien

<400> 137

Met Lys Val Arg Ser Ile His Pro Ser Ser Ala Thr Cys Ala Ser Ala
1 5 10 15

Leu His Leu Pro Gln Leu Thr Thr Glu Lys Arg Thr Gln Leu His Lys
20 25 30

Arg Asp Cys Lys Ile Arg Lys Tyr Ile
35 40

<210> 138
<211> 47
<212> PRT
<213> Homo sapien

<400> 138

Met Val Thr Leu Gln Met Pro Ser Val Ala Ala Gln Thr Ser Leu Thr
1 5 10 15

Asn Ser Ala Phe Gln Ala Glu Ser Lys Val Ala Ile Val Ser Gln Pro
20 25 30

Val Ala Arg Ser Ser Val Ser Ala Asp Ser Arg Ile Cys Thr Glu
35 40 45

<210> 139
<211> 55
<212> PRT
<213> Homo sapien

<400> 139

Ile Gln Asp Lys Asp Ser Val Asn Met Val Thr Leu Gln Met Pro Ser

1 5 10 15

Val Ala Ala Gln Thr Ser Leu Thr Asn Ser Ala Phe Gln Ala Glu Ser
20 25 30

Lys Val Ala Ile Val Ser Gln Pro Val Ala Arg Ser Ser Val Ser Ala
35 40 45

Asp Ser Arg Ile Cys Thr Glu
50 55

<210> 140
<211> 47
<212> PRT
<213> Homo sapien

<400> 140

Met Phe Leu Tyr Ala Phe Met Tyr Ile Phe His Leu Tyr Asn Glu Cys
1 5 10 15

Met Tyr Leu Leu Ser Leu Tyr Lys Leu Leu Leu Phe Val Ile Phe Phe
20 25 30

Phe Phe Pro Phe Phe Gly Phe Leu Thr Phe Gln Lys Met Lys His
35 40 45

<210> 141
<211> 70
<212> PRT
<213> Homo sapien

<400> 141

Met Asn Leu Gly Asn Lys Pro Tyr Phe Leu Ile Thr Met Leu Asp His
1 5 10 15

Leu Ser Pro Arg Arg Gly Trp Gly Thr Gln Asp Glu Ser Leu Gly Ser
20 25 30

Leu Trp Tyr Gln Ile Leu Asn Ile Pro Ser Leu Leu Asn Ala Thr Leu
35 40 45

Leu Leu Pro Leu Leu Glu Gly Lys Asn Ala Lys Met Gly Ile Ser Leu
50 55 60

Ser Leu Gly Pro Val Pro
65 70

<210> 142
<211> 11
<212> PRT
<213> Homo sapien

<400> 142

Met Tyr Trp Tyr Ser Phe Gln Ser Ser Ser Trp
1 5 10

<210> 143
<211> 230
<212> PRT
<213> Homo sapien

<400> 143

Leu Asp Arg Leu Ser Lys Ala Lys Ile Asp Lys Lys Thr Leu Asp Leu
1 5 10 15

Asn Ala Thr Leu Asp Gln Met Asp Leu Thr Asp Ile Tyr Arg Thr Val
20 25 30

Tyr Leu Thr Pro Thr Asp Tyr Thr Phe Phe Ser Ser Ala Cys Gly Thr
35 40 45

Phe Ser Arg Ile Asp His Met Leu Ser His Lys Thr Ser Leu Asn Lys
50 55 60

Phe Leu Lys Ile Gly Ile Ile Gln Ser Ile Phe Ser Asp His Lys Arg
65 70 75 80

Ile Lys Leu Glu Ile His Thr Lys Arg Asn Phe Gly Asn Tyr Thr Asn
85 90 95

Thr Trp Lys Leu Asn Met Leu Leu Asn Asn Tyr Trp Val Asn Glu Glu
100 105 110

Ile Lys Met Glu Ile Ala Lys Phe Leu Lys Thr Asn Arg Asn Gly Asn
115 120 125

Ala Thr Tyr Gln Asn Met Trp Asp Thr Ala Arg Ala Met Ala Arg Gly
130 135 140

Asn Leu Thr Val Ile Asn Ala Tyr Ile Lys Lys Val Val Glu Ile Phe
145 150 155 160

Ala Ile Lys Asn Leu Ser Met His Leu Lys Glu Leu Glu Lys Gln Lys
165 170 175

Gln Thr Asn Pro Gln Ser Ser Arg Gln Lys Glu Ile Met Lys Ser Arg
180 185 190

Ala Asp Gln Asn Glu Thr Asp Lys Lys Thr Ile Gln Arg Val Asn Glu
195 200 205

Met Lys Ser Cys Phe Phe Lys Lys Ile Asn Lys Ile Asp Asn Pro Leu
210 215 220

Ala Ala Leu Thr Lys Lys
225 230

<210> 144
<211> 149
<212> PRT
<213> Homo sapien

<400> 144

Met Tyr Gln Leu Arg Leu Val Thr Leu Phe Gln Ile His Met Lys Gly
1 5 10 15

Ala Ile Pro Leu Lys Leu Phe Thr Asp Val Leu Cys Lys Arg Trp Ser
20 25 30

Thr Lys Glu Thr His Gln Met Gly Gly Glu Ala Asp Pro Gly His Ala
35 40 45

Gln Arg Glu Gln Leu Gly Thr Trp Ala Gly Ile Gly Lys Lys Val Val
50 55 60

Gln Arg Ala Arg Pro Gly Pro Ala Leu Ser Gly Gly Ser Gly Gly Leu
65 70 75 80

Cys Leu Ser Ala Leu Pro Pro Gly Leu Pro Pro Met Thr Val His Pro
85 90 95

Cys Arg Asn His Leu Arg Pro Pro Thr Pro Thr Pro Ala Pro Leu Gly
100 105 110

Ser Tyr His Leu Pro Phe Pro Pro Ser Ser Leu Ser Pro Thr Lys Ala
115 120 125

```
Ser Leu Cys Phe Leu Glu Ala Ser Ile Thr Gly Ser Cys Pro Gly Pro
    130                 135                 140

Ser Trp Gly Thr Arg
145
```

<210> 145
<211> 31
<212> PRT
<213> Homo sapien

<400> 145

```
Met Gly Trp Asn Glu Glu Glu Gln Ser Cys Pro Pro Val Pro Gly Gly
1               5                   10                  15

Thr Val Ser Arg Lys Ile His Thr Tyr Leu Lys Leu Gln Lys Gly
            20                  25                  30
```

<210> 146
<211> 106
<212> PRT
<213> Homo sapien

<400> 146

```
Cys Gly Trp Trp Thr Gly Met Pro Gly Ser Ser Pro Gly Ser Leu Leu
1               5                   10                  15

Pro Ser Asn Arg Leu Ser Leu Val Pro Leu Val Pro Ser Ala Ser Met
            20                  25                  30

Thr Arg Leu Met Arg Ser Arg Thr Ala Ser Gly Ser Ser Val Thr Ser
        35                  40                  45

Leu Asp Gly Thr Arg Ser Arg Ser His Thr Ser Glu Gly Thr Arg Ser
    50                  55                  60

Arg Ser His Thr Ser Glu Gly Thr Arg Ser Arg Ser His Thr Ser Glu
65                  70                  75                  80

Gly Ala His Leu Asp Ile Thr Pro Asn Ser Gly Ala Ala Gly Asn Ser
                85                  90                  95

Ala Gly Pro Lys Ser Met Glu Val Ser Cys
            100                 105
```

<210> 147
<211> 72
<212> PRT
<213> Homo sapien

<400> 147

Met Ser His Gly Ser Gly Trp Gln Cys Tyr Ser Pro Met Asn Thr Asp
1 5 10 15

His Ser Ser Asn Thr Gly Asp Trp Ser His Thr Ala Thr Phe Leu Ser
20 25 30

Arg Gln Arg His Lys Thr Arg Lys Asn Arg Thr Thr Leu Arg Ala Val
35 40 45

Met Trp Glu Cys Gly Pro Ser Tyr Asn Thr Gln His Gln Asn Trp Thr
50 55 60

Leu His Leu Lys Gly Phe Lys Thr
65 70

<210> 148
<211> 24
<212> PRT
<213> Homo sapien

<400> 148

Met Glu Gly Pro Thr Asn Arg Ser Ser Leu Glu Pro Pro Glu Glu Ala
1 5 10 15

Gln Pro Ser Gln Gln Phe Gly Arg
20

<210> 149
<211> 70
<212> PRT
<213> Homo sapien

<400> 149

Met Leu Asp Leu Leu Ile Val Phe Arg Ile Lys Ser Lys Leu Leu Lys
1 5 10 15

Met Ala Phe His Asp Leu Val Ser Pro His Gln Asn Ala His Thr Met
20 25 30

Leu Leu Leu Thr Pro Ser Gln Leu Trp Leu Pro Ser Thr Cys Ser Ser
35 40 45

Gln Ala Ser Thr Ser Phe Leu Val Ser Ala Val Leu Leu Ser Pro Pro
50 55 60

Ser Leu Leu Ser Pro Gly
65 70

<210> 150
<211> 46
<212> PRT
<213> Homo sapien

<400> 150

Met Ser Thr Cys Phe Leu Ala Ser His Gly Asn Ser Cys Leu Leu Cys
1 5 10 15

Ser Phe Ser Ile Ile Ser Leu Leu Leu Ala Ser Lys Glu Ser Phe Val
20 25 30

Gly Ile Leu Pro Ser Ser Ser Tyr Leu Leu Cys Lys Ile Thr
35 40 45

<210> 151
<211> 40
<212> PRT
<213> Homo sapien

<400> 151

Met Glu Arg Phe Lys Glu Arg Gly Arg Gly His Gly Ala Phe Met Pro
1 5 10 15

Ser Pro Gly Thr Leu Pro Ser Arg Asn Leu Gln Thr Val Gln Leu Ser
20 25 30

Gly Ser Ser Leu Asn Leu Val Ile
35 40

<210> 152
<211> 32
<212> PRT
<213> Homo sapien

<400> 152

Met Leu Gly Ser Glu Cys Leu Leu Phe Met His Leu Leu Lys Lys Leu
1 5 10 15

Leu Gln Gly Asn Lys Lys Arg Ile Gln Glu Arg Gly His His Gly Leu
20 25 30

<210> 153
<211> 956
<212> PRT
<213> Homo sapien

<400> 153

Met Lys Ala Glu Ile Lys Val Phe Phe Glu Thr Asn Glu Asn Lys Asp
1 5 10 15

Thr Thr Tyr Gln Asn Leu Trp Asp Thr Phe Lys Ala Val Cys Arg Gly
20 25 30

Lys Phe Ile Ala Leu Asn Ala His Lys Arg Lys Gln Glu Arg Ser Lys
35 40 45

Ile Asp Thr Leu Thr Ser Gln Leu Lys Glu Leu Glu Lys Gln Glu Gln
50 55 60

Thr His Ser Lys Ala Ser Arg Arg Gln Glu Ile Thr Lys Ile Arg Ala
65 70 75 80

Glu Leu Lys Glu Ile Gln Thr Gln Lys Thr Leu Gln Lys Ile Asn Glu
85 90 95

Ser Arg Ser Trp Phe Phe Glu Arg Ile Asn Lys Ile Asp Arg Ser Leu
100 105 110

Ala Arg Leu Ile Lys Lys Lys Arg Glu Lys Asn Gln Ile Asp Thr Ile
115 120 125

Lys Asn Asp Lys Gly Asp Ile Thr Thr Asp Pro Thr Glu Ile Gln Thr
130 135 140

Thr Ile Arg Glu Tyr Tyr Lys His Leu Tyr Ala Asn Lys Leu Glu Asn
145 150 155 160

Leu Glu Glu Met Asp Lys Phe Leu Asp Thr Tyr Thr Leu Pro Arg Leu
165 170 175

Asn Gln Glu Glu Val Glu Ser Leu Asn Arg Pro Ile Thr Gly Ala Glu
180 185 190

```
Ile Val Ala Ile Ile Asn Ser Leu Pro Thr Lys Lys Ser Pro Gly Pro
        195                 200                 205

Asp Gly Phe Thr Ala Glu Phe Tyr Gln Ser Trp Ala Glu Thr Gln Pro
    210                 215                 220

Lys Lys Glu Asn Phe Arg Pro Ile Ser Leu Met Asn Ile Asp Ala Lys
225                 230                 235                 240

Ile Leu Asn Lys Ile Leu Ala Lys Arg Ile Gln Gln His Ile Lys Lys
                245                 250                 255

Leu Ile His His Asp Gln Val Gly Phe Ile Pro Gly Met Gln Gly Trp
            260                 265                 270

Phe Asn Ile Arg Lys Ser Ile Asn Val Thr Gln His Ile Asn Arg Ala
        275                 280                 285

Lys Asp Lys Asn His Met Ile Ile Ser Ile Asp Ala Glu Lys Ala Phe
    290                 295                 300

Asp Lys Ile Gln Gln Pro Phe Met Leu Lys Thr Leu Asn Lys Leu Gly
305                 310                 315                 320

Ile Asp Gly Thr Tyr Phe Lys Ile Ile Arg Ala Ile Tyr Asp Asn Pro
                325                 330                 335

Thr Ala Asn Ile Ile Leu Asn Gly Gln Lys Leu Glu Ala Phe Pro Leu
            340                 345                 350

Lys Thr Gly Thr Arg Gln Gly Cys Pro Leu Ser Pro Leu Leu Phe Asn
        355                 360                 365

Ile Val Leu Glu Val Leu Ala Arg Ala Ile Arg Gln Glu Lys Glu Ile
    370                 375                 380

Lys Gly Ile Gln Leu Gly Lys Glu Glu Val Lys Leu Ser Leu Phe Ala
385                 390                 395                 400

Asp Asn Met Ile Val Tyr Leu Glu Asn Pro Ile Val Ser Ala Gln Asn
                405                 410                 415

Leu Leu Lys Leu Ile Ser Asn Phe Ser Lys Val Ser Gly Tyr Lys Ile
            420                 425                 430
```

```
Asn Val Gln Lys Ser Gln Ala Phe Leu Tyr Thr Asn Asn Arg Gln Thr
        435                 440                 445

Glu Ser Gln Ile Met Ser Gln Leu Pro Phe Thr Ile Ala Ser Lys Arg
    450                 455                 460

Ile Lys Tyr Leu Gly Ile Gln Leu Thr Arg Asp Val Lys Asp Leu Phe
465                 470                 475                 480

Lys Glu Asn Tyr Lys Pro Leu Leu Lys Glu Ile Lys Glu Asp Thr Asn
                485                 490                 495

Lys Trp Lys Asn Ile Pro Cys Ser Gly Glu Gly Arg Ile Asn Ile Val
            500                 505                 510

Lys Met Ala Ile Leu Pro Lys Glu Leu Glu Lys Thr Thr Leu Lys Phe
        515                 520                 525

Ile Trp Asn Gln Lys Arg Ala His Ile Ala Lys Ser Ile Leu Asn Gln
    530                 535                 540

Lys Asn Lys Ala Gly Gly Ile Thr Leu Pro Asp Phe Lys Leu Tyr Tyr
545                 550                 555                 560

Lys Ala Thr Val Thr Lys Thr Ala Trp Tyr Trp Tyr Gln Asn Arg Asp
                565                 570                 575

Ile Asp Gln Trp Asn Arg Thr Glu Pro Ser Glu Ile Thr Gln His Ile
            580                 585                 590

Tyr Ser Tyr Leu Ile Phe Asp Lys Pro Glu Lys Asn Lys Gln Trp Gly
        595                 600                 605

Lys Asp Ser Leu Phe Asn Lys Trp Cys Trp Glu Asn Trp Leu Ala Ile
    610                 615                 620

Cys Arg Lys Leu Lys Leu Asp Pro Phe Leu Thr Pro Tyr Thr Lys Met
625                 630                 635                 640

Asn Ser Arg Trp Ile Lys Asp Leu Asn Val Arg Pro Lys Thr Ile Lys
                645                 650                 655

Thr Leu Glu Glu Asn Leu Gly Ile Thr Ile Gln Asp Ile Gly Met Gly
            660                 665                 670
```

```
Lys Asp Phe Met Ser Lys Thr Pro Lys Ala Met Ala Thr Lys Asp Lys
        675                 680                 685

Ile Asp Lys Trp Asp Leu Val Lys Leu Lys Ser Phe Cys Thr Ala Lys
    690                 695                 700

Glu Thr Thr Ile Arg Val Asn Arg Gln Pro Thr Lys Trp Glu Lys Ile
705                 710                 715                 720

Phe Ala Thr Tyr Ser Ser Asp Lys Gly Leu Ile Ser Arg Ile Tyr Asn
                725                 730                 735

Glu Leu Lys Gln Ile Tyr Lys Lys Lys Thr Asn Asn Pro Ile Lys Lys
            740                 745                 750

Trp Ala Lys Asp Met Asn Arg His Phe Ser Lys Glu Asp Ile Tyr Ala
        755                 760                 765

Ala Lys Lys His Met Lys Lys Cys Ser Ser Ser Leu Ala Ile Arg Glu
    770                 775                 780

Met Gln Ile Lys Thr Thr Met Arg Tyr His Leu Thr Pro Val Arg Met
785                 790                 795                 800

Ala Ile Ile Lys Lys Ser Gly Asn Asn Arg Cys Trp Arg Gly Cys Gly
                805                 810                 815

Glu Thr Gly Thr Leu Leu His Cys Trp Trp Asp Cys Lys Leu Ala Gln
            820                 825                 830

Pro Leu Trp Lys Ser Val Trp Arg Phe Leu Arg Asp Leu Glu Leu Glu
        835                 840                 845

Ile Pro Phe Asp Pro Ala Ile Pro Leu Leu Gly Ile Tyr Pro Lys Asp
    850                 855                 860

Tyr Lys Ser Cys Cys Tyr Lys Asp Thr Cys Thr Arg Met Phe Ile Ala
865                 870                 875                 880

Ala Leu Phe Thr Ile Ala Lys Thr Trp Asn Gln Pro Lys Cys Pro Thr
                885                 890                 895

Ile Ile Asp Trp Ile Lys Lys Met Trp His Ile Tyr Thr Met Glu Tyr
```

900 905 910

Tyr Ala Ala Ile Lys Asn Asp Glu Phe Val Ser Phe Val Gly Thr Trp
915 920 925

Met Lys Leu Glu Ile Ile Ile Leu Ser Lys Leu Ser Gln Glu Gln Lys
930 935 940

Thr Thr His Arg Ile Phe Ser Leu Ile Gly Gly Asn
945 950 955

<210> 154
<211> 39
<212> PRT
<213> Homo sapien

<400> 154

Met Ile Ile Thr Ser Gln Gly Asn Phe Leu Phe Pro Leu Phe Ile Ser
1 5 10 15

Leu Leu His His Tyr Ser Gln Ser Leu Ser Leu Phe Pro Lys Glu Val
20 25 30

Phe His Gly Phe Leu Thr Asp
35

<210> 155
<211> 37
<212> PRT
<213> Homo sapien

<400> 155

Met Val Leu Ser Cys Tyr Ser Leu Val Thr Phe Arg Ser Ser Leu Leu
1 5 10 15

Thr Lys Gly Lys Ile Ile Tyr Lys Tyr Gln Met Thr Ile Glu Leu Ser
20 25 30

Gln Leu Met Phe Phe
35

<210> 156
<211> 110
<212> PRT
<213> Homo sapien

<400> 156

```
Met Gly Cys His Gly Gly Ala Arg Asp Ser Cys Val Asn Arg Glu Cys
1               5                   10                  15

Gly Phe Leu Gln Arg Gly Val Trp Arg Trp Thr Ser Arg Ser Phe Trp
            20                  25                  30

Ser Leu Arg Glu Gly Gln Gln Ser Ser Arg His Phe Met Asn His Ile
        35                  40                  45

Leu Ala Val Ala Ala Phe Ala Ser Pro Gly Gly Trp Ser His Ala Leu
    50                  55                  60

Ala Ala Arg Leu Arg His Pro Pro Val His Ser Val Pro Trp Pro Pro
65                  70                  75                  80

Ala Val Gly Leu Ala Leu Phe Ser Thr Asn Asn Pro Gln Cys Ile Val
                85                  90                  95

Met Thr Ser Ala Thr Asn Val Asp Val Ser Met Tyr His Ile
            100                 105                 110
```

<210> 157
<211> 62
<212> PRT
<213> Homo sapien

<400> 157

```
Met Gly Ser His Phe Pro Gln Ser Arg Trp His Lys Leu His Glu Val
1               5                   10                  15

Ala Ala Val Pro Leu His Pro Asp Gln Ser Leu Ala Pro Gln Trp Asn
            20                  25                  30

His Thr Pro Pro Leu Pro Glu Ala Glu Ser Leu Phe Tyr Gly Arg Ala
        35                  40                  45

Ala Ala Leu Gly Thr Phe Leu Asn Ser Pro Val Phe His Leu
    50                  55                  60
```

<210> 158
<211> 241
<212> PRT
<213> Homo sapien

<400> 158

```
Glu Gly Cys Leu Trp Pro Ser Glu Ser Thr Val Ser Gly Asn Gly Ile
1               5                  10                  15

Pro Glu Cys Pro Cys Cys Trp Asp Pro Pro Cys Arg Arg Ser Ser Ala
            20                  25                  30

Pro Cys Pro Ala Gly Ser Ser Pro Ala Leu Cys Ser Leu His Thr Gly
        35                  40                  45

Ala Arg Thr Leu Pro Leu Phe Gly Gly Gly Arg Pro Gln Val Tyr Ala
    50                  55                  60

Pro Pro Arg Pro Thr Asp Arg Leu Ala Val Pro Pro Phe Ala Gln Arg
65                  70                  75                  80

Glu Arg Phe His Arg Phe Gln Pro Thr Tyr Pro Tyr Leu Gln His Glu
                85                  90                  95

Ile Asp Leu Pro Pro Thr Ile Ser Leu Ser Asp Gly Glu Glu Pro Pro
            100                 105                 110

Pro Tyr Gln Gly Pro Cys Thr Leu Gln Leu Arg Asp Pro Glu Gln Gln
        115                 120                 125

Leu Glu Leu Asn Arg Glu Ser Val Arg Ala Pro Pro Asn Arg Thr Ile
    130                 135                 140

Phe Asp Ser Asp Leu Met Asp Ser Ala Arg Leu Gly Gly Pro Cys Pro
145                 150                 155                 160

Pro Ser Ser Asn Ser Gly Ile Ser Ala Thr Cys Tyr Gly Ser Gly Gly
                165                 170                 175

Arg Met Glu Gly Pro Pro Pro Thr Tyr Ser Glu Val Ile Gly His Tyr
            180                 185                 190

Pro Gly Ser Ser Phe Gln His Gln Gln Ser Ser Gly Pro Pro Ser Leu
        195                 200                 205

Leu Glu Gly Thr Arg Leu His His Thr His Ile Ala Pro Leu Glu Ser
    210                 215                 220

Ala Ala Ile Trp Ser Lys Glu Lys Asp Lys Gln Lys Gly His Pro Leu
225                 230                 235                 240
```

Leu

<210> 159
<211> 50
<212> PRT
<213> Homo sapien

<400> 159

Met Ile His Phe Leu Ser Phe Ser Thr Asn Asn Ala Tyr Ala Leu Asp
1 5 10 15

Leu Pro Glu Tyr Ser Trp Thr Thr Asp Leu Cys Lys Lys Leu Phe Phe
20 25 30

Leu Lys Ile Ala Ser Lys Gln Asn Gly Phe Asn Lys Leu Gln Asn Arg
35 40 45

Gln Pro
50

<210> 160
<211> 37
<212> PRT
<213> Homo sapien

<400> 160

Met Ile Cys Pro Phe Phe Leu His Ser Phe Thr Ser Ser Ser Phe Tyr
1 5 10 15

Cys Tyr Phe Leu Lys Arg Ile Asn Pro Leu Ala Val Leu Phe Arg Val
20 25 30

Phe Phe Thr Leu Phe
35

<210> 161
<211> 75
<212> PRT
<213> Homo sapien

<400> 161

Met Leu Val Lys Ser Arg Cys Leu Cys Leu Cys Pro Phe Cys Leu Gly
1 5 10 15

Leu Leu Glu Thr Asp Ala Gly Gly Ser Val Ala Pro His Cys Ser Gly

20 25 30

Tyr Val Pro Trp Ser Gln Ala Leu Leu Leu Leu Arg Ser Leu Leu Glu
35 40 45

Met Gln Asn Leu Arg Pro Asn Ser Arg Pro Met Thr Gln Ser Leu His
50 55 60

Phe Asn Arg Cys Leu Cys Asp Ser Cys Ala Gly
65 70 75

<210> 162
<211> 105
<212> PRT
<213> Homo sapien

<400> 162

Gln Met Gln Gln Gln Asn Thr Gln Lys Val Glu Ala Ser Lys Val Pro
1 5 10 15

Glu Tyr Ile Lys Lys Ala Ala Lys Lys Ala Ala Glu Phe Asn Ser Asn
20 25 30

Leu Asn Arg Glu Arg Met Glu Glu Arg Arg Ala Tyr Phe Asp Leu Gln
35 40 45

Thr His Val Ile Gln Val Pro Gln Gly Lys Tyr Lys Val Leu Pro Thr
50 55 60

Glu Arg Thr Lys Val Ser Ser Tyr Pro Val Ala Leu Ile Pro Gly Gln
65 70 75 80

Phe Gln Glu Tyr Tyr Lys Ser Ile Ala Ala Phe Ala Leu His Cys Ile
85 90 95

Gly Tyr Trp Ala Gly Val Ser Glu Pro
100 105

<210> 163
<211> 44
<212> PRT
<213> Homo sapien

<400> 163

Met Thr Pro His Cys Pro Gln Asn Arg Leu His Phe Leu Leu Ala Tyr
1 5 10 15

```
Lys Ala Asn Leu Asn Leu Thr Pro Gly Arg His Pro Ala Thr Val Thr
            20                  25                  30

His Ile Leu Val Ile Pro Ser Thr Ile Gly Arg Leu
        35                  40

<210>  164
<211>  25
<212>  PRT
<213>  Homo sapien

<400>  164

Met Thr Met Trp Asn Cys Leu Leu Thr Cys Lys Val Thr His Asn Ile
1               5                   10                  15

Met Val Lys Phe Leu Lys Ser Asn Tyr
            20                  25

<210>  165
<211>  67
<212>  PRT
<213>  Homo sapien

<400>  165

Met Thr Gly Tyr Cys Met Trp Glu Ile Met Lys Pro Phe Ala Val Ser
1               5                   10                  15

Ser Pro Val Ser Phe Arg Val Ser Val Leu Ser Lys Pro Pro Cys Glu
            20                  25                  30

Val Asn Gln Met Leu Asp Phe Phe Pro Gln Ser His Gln Leu Pro Arg
        35                  40                  45

Glu Arg Asp Thr Tyr Arg Thr Leu Pro Ser Ala Tyr Ser Ser Ser Ala
    50                  55                  60

Pro Ser Thr
65

<210>  166
<211>  42
<212>  PRT
<213>  Homo sapien

<400>  166
```

Met Leu Glu Met Ser Phe Ala Leu Pro Glu Phe Ala Lys Gly Ala His
1 5 10 15

Arg Lys Gln Ile Glu Lys His Pro Leu Gly Thr Ser Leu Gln Cys Leu
20 25 30

Leu Leu Thr Lys Phe Asn Ile Ile Asn Thr
35 40

<210> 167
<211> 47
<212> PRT
<213> Homo sapien

<400> 167

Met Ala Ser Val Ala Arg Lys Tyr Ala Lys Glu Glu Val Asn Pro Ile
1 5 10 15

Ala Gly Leu Glu Asp Ser Asp Gln Thr Thr Arg Gly Leu Leu Asn Lys
20 25 30

Gly Arg Arg Cys Pro Cys Leu Met Gly Leu Ala Trp Gly Gly Gly
35 40 45

<210> 168
<211> 74
<212> PRT
<213> Homo sapien

<400> 168

Met Arg Phe Ser His Phe Phe Pro Val Phe Phe Ile Thr Phe Arg Lys
1 5 10 15

Ala Ile Leu Phe Ser Leu Tyr Thr Thr Cys Thr Leu Leu Val Gly Leu
20 25 30

Ile Pro Arg Cys Ile Asn Ile Ile Ala Phe Met Asn Gly Ile Phe Phe
35 40 45

Ile Val Phe Ser Asn Cys Leu Leu Asp Tyr Met Glu Ile Asp Phe Trp
50 55 60

His Ala Asp Ile Ser Ser Lys Lys Leu Tyr
65 70

<210> 169

<211> 27
<212> PRT
<213> Homo sapien

<400> 169

Met Thr Lys Tyr Ser Pro Leu Pro Leu Phe Leu His Phe Ile Leu Thr
1 5 10 15

Thr Ile Phe Phe Leu Ala Pro Phe Pro Leu Phe
20 25

<210> 170
<211> 54
<212> PRT
<213> Homo sapien

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> X=any amino acid

<400> 170

Met Leu Lys Val Arg Arg Leu Lys Asn Xaa Arg Ala Thr Val Trp Leu
1 5 10 15

Pro Gly Ile Gly Lys Gln Val Met Asp Phe Ser Leu Lys Gly Glu Ile
20 25 30

Ser Gly Val Gln Leu Gln His Leu Leu Leu Ile Asn Leu Ser Val Cys
35 40 45

Ala Ser Ser Ser Ile Glu
50

<210> 171
<211> 14
<212> PRT
<213> Homo sapien

<400> 171

Met Pro Thr Gln Arg Gln Pro Leu Ser Ser Gln Ala Val Lys
1 5 10

<210> 172
<211> 42
<212> PRT
<213> Homo sapien

<400> 172

Met Ala Ala Ser Val Leu Gln Ser Arg Trp Leu Ile Val Ile Leu Val
1 5 10 15

Gln Lys Arg Ile His Thr His Thr Tyr Lys Tyr Val Ser Cys Leu Asp
20 25 30

Pro Gln Glu Phe His Val Ser Leu Tyr Leu
35 40

<210> 173
<211> 121
<212> PRT
<213> Homo sapien

<400> 173

Met Arg Thr Ser Lys Trp Ile Pro Pro Cys Lys Cys Gly Ala Gly Ala
1 5 10 15

Thr Arg His Cys Ser Gly His Ala Ser Lys Thr Gln Ala Glu Gly Ala
20 25 30

Ala His His Ala Gly Asp Gly Leu Lys Ala Pro Val His Ala Trp Asp
35 40 45

Ser Ala Gln Gly Pro Cys Ser Cys Leu Gly Gln Ala Pro Gly Pro Pro
50 55 60

Leu Ala Ala Val Ser Ser Gly Gln Gly Gly Gly Gly Arg Tyr Gly His
65 70 75 80

Ser Val Gly Arg Ser Trp Glu Asn Lys Ala Tyr Tyr Trp Thr Pro Gly
85 90 95

Gly His Gly Asn His Thr Arg Met Pro Glu Thr Glu Asn Leu Trp Ala
100 105 110

Ser Arg Ser Ser Ser Ser Cys Thr Gly
115 120

<210> 174
<211> 25
<212> PRT
<213> Homo sapien

<400> 174

```
Met Gly Asn Tyr Ala Asn Asn Lys Lys Arg Thr Leu Arg Ser Ile Asn
1               5                   10                  15

Thr Val His Lys Tyr Gly Gly Leu Phe
            20                  25
```

<210> 175
<211> 33
<212> PRT
<213> Homo sapien

<400> 175

```
Met Pro Ser Phe Arg Ile Leu Asp Thr Cys Cys Phe Ser Pro Ser His
1               5                   10                  15

Glu Thr Phe Cys Lys Asn Lys Glu Arg Gly Ile Thr Val Cys His His
            20                  25                  30

Ser
```

<210> 176
<211> 30
<212> PRT
<213> Homo sapien

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> X=any amino acid

<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> X=any amino acid

<400> 176

```
Met Ile Phe Pro Val Lys Xaa Leu Ile Arg Xaa Ile Pro Arg Asn Leu
1               5                   10                  15

Leu Tyr Ile Met Asp Phe Asp Ile Tyr Leu Val Lys Val Lys
            20                  25                  30
```

<210> 177
<211> 42
<212> PRT
<213> Homo sapien

<400> 177

Met Val Ala Ser Val Met Glu Ser Ala Asp Leu Glu Glu Gln Thr Gln
1 5 10 15

Leu Val Thr Glu Leu Pro Gly Gly Arg Leu Ser Leu Gly Met Glu Gly
20 25 30

Tyr Arg Asn Phe Arg Val Leu Gln Asn Phe
35 40

<210> 178
<211> 80
<212> PRT
<213> Homo sapien

<400> 178

Met Tyr Phe Pro Pro Ala Phe Phe Phe Pro Phe Glu Tyr Val Ser Leu
1 5 10 15

Asn Leu Phe Ser Lys Ser Ala Arg Leu Ala Leu Ser Ser His Phe Leu
20 25 30

Ser Leu Ser Ser Ser Tyr Leu Ser Val Phe Phe Leu Leu Val Leu Leu
35 40 45

Phe Leu Tyr Phe Ser Pro Ser Leu His Ile His His His Lys Gln Thr
50 55 60

Tyr Thr Phe Gln Lys Leu Val Pro Phe Trp Pro Pro Phe Asn Asn Arg
65 70 75 80

<210> 179
<211> 40
<212> PRT
<213> Homo sapien

<400> 179

Met Arg Val Trp Asp Pro Phe Leu Thr Leu Ile Leu Ile Lys Gln Gln
1 5 10 15

Ile Phe Ile Ile Asn Glu Ile Tyr Asn Tyr Val Asn Leu Ile Asp Ile
20 25 30

Gly Ile Val Ser Arg Ile Phe Ile
35 40

<210> 180
<211> 82
<212> PRT
<213> Homo sapien

<400> 180

Met Arg Tyr Thr Arg Gly Arg Arg Pro Lys Arg Arg Tyr Ile Gly His
1 5 10 15

Leu Pro Val Phe Phe Gln Val His Phe Leu Pro Phe Ser Ala Leu Cys
20 25 30

Tyr Asn Ser Glu Thr Asn Ile Phe Gln Leu Ser Cys Phe Leu Asp Phe
35 40 45

Lys Lys Ala Ser Glu Arg His Cys Gly Lys Pro Lys Gly Pro Met Trp
50 55 60

Lys Gln Ala Thr Phe His Leu Leu Arg Leu Ser Ala Ser Ser Ser Ile
65 70 75 80

Cys Ser

<210> 181
<211> 23
<212> PRT
<213> Homo sapien

<400> 181

Met Asp Val Ile Asp Val Pro Lys Glu Ser Val Leu Asn Leu Ile Gln
1 5 10 15

Ser Pro Gly Ser Ser Cys Leu
20

<210> 182
<211> 95
<212> PRT
<213> Homo sapien

<400> 182

Met Arg Ser Ala Glu Lys Glu Arg Glu Glu Asn Thr Asn Lys Ser Leu
1 5 10 15

Ser Ser Leu Ser Pro Val Ser Phe Pro Gln His Val Lys Gly Pro Gly
20 25 30

Pro Lys Phe Pro Leu Pro Cys Val Leu Glu Ala Leu Leu Leu Phe Asn
35 40 45

Leu Asp Thr Leu Lys Arg Glu Ala Gln Asn Thr Val Thr Val Leu Asn
50 55 60

Ser Lys Pro Cys His Val Thr Ser Leu His Thr Gly Leu Ala Glu Thr
65 70 75 80

Ser Val Gly Lys Gly Ala Ala Glu Asn Ser Val Lys Arg Lys Gln
85 90 95

<210> 183
<211> 31
<212> PRT
<213> Homo sapien

<400> 183

Met Arg Asn Leu Met Trp Gly Ile Arg Glu Arg Ile Lys Ser Asp Phe
1 5 10 15

Arg Val Phe Gly Val Ser Ile Trp Lys Ser Glu Val Ala Ile His
20 25 30

<210> 184
<211> 54
<212> PRT
<213> Homo sapien

<400> 184

Met Ser Phe Pro Thr Lys Gln Phe Gly Val Thr Thr Val Ile Pro Val
1 5 10 15

Ser Tyr Gly Trp Gly Leu Cys Ile Gly Met Cys Thr Leu Lys Phe Ile
20 25 30

His Leu Phe Ser Thr Ile Leu Phe Glu His Leu Leu Ser Val Arg Ala
35 40 45

Leu Ser Val Val Arg Tyr
50

<210> 185

<211> 13
<212> PRT
<213> Homo sapien

<400> 185

Met Lys Arg Glu Leu Ser Ile Leu Ile Lys Ser Lys Gly
1 5 10

<210> 186
<211> 51
<212> PRT
<213> Homo sapien

<400> 186

Lys Ile Gln Ala Lys Gln Ile Lys Lys Arg Ile Gln Arg Ile Ile His
1 5 10 15

His Asp Gln Val Gly Phe Ile Pro Gly Ile Gln Gly Trp Phe Asn Ile
20 25 30

Ala Lys Ser Ile Asp Glu Thr His Lys Ile Glu Arg Ile Lys Met Arg
35 40 45

Ser Leu Met
50

<210> 187
<211> 14
<212> PRT
<213> Homo sapien

<400> 187

Met Lys Gly Ser Tyr Leu Ile Pro Asn Phe Leu Leu Glu Pro
1 5 10

<210> 188
<211> 56
<212> PRT
<213> Homo sapien

<400> 188

Met Asp Val Ser Ala Cys Gly Arg Leu Tyr Phe Ser Lys Met Thr Thr
1 5 10 15

Lys Ile Ser Pro Ile Ser Cys Val Ile Leu Gln Trp Gly Leu Cys Pro
20 25 30

```
Leu Phe Leu Asn Val Cys Ala Leu Val Thr Ala Leu Thr Asn Arg Val
        35                  40                  45

Trp Gly Arg Met Pro Cys Asp Phe
    50                  55
```

<210> 189
<211> 29
<212> PRT
<213> Homo sapien

<400> 189

```
Met Ala Leu Lys Arg Ile Val Ser His Ser Thr Arg Glu Gly Gly Thr
1               5                   10                  15

His Leu Glu Arg Cys His Arg Thr Pro Ile Pro Ser Gly
            20                  25
```

<210> 190
<211> 34
<212> PRT
<213> Homo sapien

<400> 190

```
Met Thr Lys Pro Pro Ile Leu Thr Pro Trp Ser Leu Leu Ser Arg Ser
1               5                   10                  15

Pro Leu Cys Ser Phe Gln Ser His Glu Glu Gly Glu Gly Arg Pro Arg
            20                  25                  30

Gln Gly
```

<210> 191
<211> 42
<212> PRT
<213> Homo sapien

<400> 191

```
Met Pro Glu Ala Leu Pro Gly Pro Gly Arg Ile Lys Ser Leu Thr Val
1               5                   10                  15

Trp Gly Leu Val Trp Pro Phe Thr His Ile Thr Leu Gln Asn Thr Phe
            20                  25                  30

Gln Gly Asp Ile Ser Val Ser Ser Ile Leu
        35                  40
```

<210> 192
<211> 59
<212> PRT
<213> Homo sapien

<400> 192

Met Val Gly His Lys Cys Leu Phe Asn Phe Asp Leu Leu Ala Phe Ser
1 5 10 15

Ile Gln Ala Val Thr Leu Pro His Lys Thr Leu Gly Ala Leu Ala Arg
20 25 30

Gly Asp Cys Thr Ser Ser Pro Gln Met Phe Ser Lys Lys Leu Pro Gly
35 40 45

Thr Leu Leu Leu Gly Tyr Thr Lys Ser Arg Gln
50 55

<210> 193
<211> 87
<212> PRT
<213> Homo sapien

<400> 193

Arg Gln Cys Leu Ala Leu Ser Pro Arg Leu Glu Cys Ser Gly Thr Ile
1 5 10 15

Ala Ala His Cys Asn Pro Arg Leu Pro Gly Ser Ser Asp Ser Tyr Ala
20 25 30

Ser Ala Ser Arg Ala Ala Gly Ile Thr Asp Ala His Gln Asp Thr Gln
35 40 45

Pro Ile Phe Val Phe Leu Val Glu Met Gly Leu His His Val Cys Gln
50 55 60

Ala Gly Leu Glu Leu Leu Thr Ser Ser Asp Leu Pro Thr Leu Ala Ser
65 70 75 80

Gln Val Leu Gly Leu Gln Ala
85

<210> 194
<211> 117
<212> PRT

<213> Homo sapien

<220>
<221> MISC_FEATURE
<222> (34)..(72)
<223> X=any amino acid

<220>
<221> MISC_FEATURE
<222> (102)..(102)
<223> X=any amino acid

<220>
<221> MISC_FEATURE
<222> (113)..(113)
<223> X=any amino acid

<400> 194

```
Met Gly Lys Ala Leu Phe Cys Gly Leu Trp Pro Leu Lys Ser Ile Cys
1               5                  10                  15

Leu Leu Leu Leu Ser Gln Gly Ser Asp Ala Ala Leu Thr Ile Leu Leu
            20                  25                  30

Pro Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
        35                  40                  45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
    50                  55                  60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Val Lys Cys Thr Glu Ala Cys
65                  70                  75                  80

Ile Phe Glu Thr Ser Lys Gly Arg Arg Leu Arg Arg Ser Pro Leu Gln
                85                  90                  95

Gly His Leu His Leu Xaa Tyr Val Ala Phe Pro Ser Asn Asn Glu Ala
            100                 105                 110

Xaa His Trp Val Leu
        115
```

<210> 195
<211> 47
<212> PRT
<213> Homo sapien

<400> 195

Met Trp Val Ala Val Pro Asp Phe Pro Leu Leu Pro Ala Val Gly Asp
1 5 10 15

Glu Leu Leu Ala Leu Gly Pro Asp Phe Pro Gly Trp Pro Leu Arg Ser
20 25 30

Arg Gly Phe Lys Phe Ser Trp Ser Cys Ser Val Leu Val Gln His
35 40 45

<210> 196
<211> 34
<212> PRT
<213> Homo sapien

<400> 196

Met Phe Ser Leu Thr Pro Leu Glu Lys Ser Pro Ser Trp Leu Leu Ser
1 5 10 15

Gln His Cys Pro Leu Val Ala Cys Ser Pro Trp Cys Phe Leu Ala Val
20 25 30

Ala Thr

<210> 197
<211> 51
<212> PRT
<213> Homo sapien

<400> 197

Met Pro Phe Pro Trp Gly Gly Leu Pro Ser Leu Ser Asn Ser Ser Leu
1 5 10 15

Cys Trp Ser Ser Leu Pro Cys His Ser Thr Leu Ser Phe His Ser Val
20 25 30

Cys Trp Tyr Cys Lys Tyr Leu Ile Leu Cys Ile Cys Ser Leu Ser Ala
35 40 45

Ser Ser Gln
50

<210> 198
<211> 286
<212> PRT

<213> Homo sapien

<400> 198

```
Asn Phe Leu Glu Thr Asp Asn Glu Gly Asn Gly Ile Leu Arg Arg Arg
1               5                  10                  15

Asp Ile Lys Asn Ala Leu Tyr Gly Phe Asp Ile Pro Leu Thr Pro Arg
            20                  25                  30

Glu Phe Glu Lys Leu Trp Ala Arg Tyr Asp Thr Glu Gly Lys Gly His
        35                  40                  45

Ile Thr Tyr Gln Glu Phe Leu Gln Lys Leu Gly Ile Asn Tyr Ser Pro
    50                  55                  60

Ala Val His Arg Pro Cys Ala Glu Asp Tyr Phe Asn Phe Met Gly His
65                  70                  75                  80

Phe Thr Lys Pro Gln Gln Leu Gln Glu Glu Met Lys Glu Leu Gln Gln
                85                  90                  95

Ser Thr Glu Lys Ala Val Ala Ala Arg Asp Lys Leu Met Asp Arg His
            100                 105                 110

Gln Asp Ile Ser Lys Ala Phe Thr Lys Thr Asp Gln Ser Lys Thr Asn
        115                 120                 125

Tyr Ile Ser Ile Cys Lys Met Gln Glu Val Leu Glu Glu Cys Gly Cys
    130                 135                 140

Ser Leu Thr Glu Gly Glu Leu Thr His Leu Leu Asn Ser Trp Gly Val
145                 150                 155                 160

Ser Arg His Asp Asn Ala Ile Asn Tyr Leu Asp Phe Leu Arg Ala Val
                165                 170                 175

Glu Asn Ser Lys Ser Thr Gly Ala Gln Pro Lys Glu Lys Glu Glu Ser
            180                 185                 190

Met Pro Ile Asn Phe Ala Thr Leu Asn Pro Gln Glu Ala Val Arg Lys
        195                 200                 205

Ile Gln Glu Val Val Glu Ser Ser Gln Leu Ala Leu Ser Thr Ala Phe
    210                 215                 220
```

```
Ser Ala Leu Asp Lys Glu Asp Thr Gly Phe Val Lys Ala Thr Glu Phe
225                 230                 235                 240

Gly Gln Val Leu Lys Asp Phe Cys Tyr Lys Leu Thr Asp Asn Gln Tyr
                245                 250                 255

His Tyr Phe Leu Arg Lys Leu Arg Ile His Leu Thr Pro Tyr Ile Asn
            260                 265                 270

Trp Lys Tyr Phe Leu Gln Asn Phe Ser Cys Phe Leu Glu Glu
        275                 280                 285
```

<210> 199
<211> 64
<212> PRT
<213> Homo sapien

<400> 199

```
Met Ser Gln Gln Gly Phe Phe Arg Leu Phe Gly Ile Tyr Ser Leu Pro
1               5                   10                  15

Ala Arg Pro Val Asn Ser Ser Arg Phe Ser Val Ser Phe Gln Ile Gly
            20                  25                  30

Thr Thr Arg Asn His Gln Leu Leu Ser Tyr Thr Leu Asp Met Leu His
        35                  40                  45

His Phe Asp Val Val Gly Phe Asp Tyr Tyr Lys Ile Asp Pro Asn Tyr
    50                  55                  60
```

<210> 200
<211> 35
<212> PRT
<213> Homo sapien

<400> 200

```
Met Asn Lys Ile Ser Cys Phe Asn Glu Ala Asn Met Thr Ile Gln Gln
1               5                   10                  15

Cys Gly Phe Gly Ile Arg Lys Ile Leu Lys Ile Leu Ile Val Ser Phe
            20                  25                  30

Ser Leu Pro
        35
```

<210> 201
<211> 66
<212> PRT
<213> Homo sapien

<400> 201

Met Ser Leu Ile Leu Thr Phe His Leu Leu Leu Thr Arg Gln Ala Leu
1 5 10 15

Ser Pro Leu Thr Trp Ile Thr Glu Leu Thr Ser Glu Leu Gln Val Val
20 25 30

Ala Ser Ser Gly Pro Val Pro Ser Val Leu Phe Leu Pro Ala Arg Ile
35 40 45

Thr Cys Arg Ala Asp Arg Leu Phe Ala His Gly Leu His Lys Ala Ser
50 55 60

Arg Ala
65

<210> 202
<211> 27
<212> PRT
<213> Homo sapien

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> X=any amino acid

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> X=any amino acid

<400> 202

Met Tyr Ala Thr Lys Lys His Val Ser Met Cys Val Asn Leu Lys Xaa
1 5 10 15

Ile Asn Gly Xaa Phe Trp Glu Val Phe Arg Ser
20 25

<210> 203
<211> 47
<212> PRT
<213> Homo sapien

<400> 203

Met Pro Cys Leu Phe Ser Thr Ser Thr Phe Asn Phe Leu Thr Lys Ile
1 5 10 15

Lys Cys Tyr Val Phe Ser Lys Ala Asp Leu Leu Pro Ser Ser Leu Ser
20 25 30

Phe Gly Ser Ser His Tyr Gln His Ser His Pro Pro Thr Leu Lys
35 40 45

<210> 204
<211> 19
<212> PRT
<213> Homo sapien

<400> 204

Met His Gln Ser Val Ser Leu Arg Thr Ala Trp Ala Arg His Gly Trp
1 5 10 15

Ser Arg Leu

<210> 205
<211> 22
<212> PRT
<213> Homo sapien

<400> 205

Met Lys Ile Gln Gly Lys Asn Ile Tyr Asn Thr Thr Met Leu Lys Asp
1 5 10 15

Pro Phe Phe Tyr Leu Thr
20

<210> 206
<211> 29
<212> PRT
<213> Homo sapien

<400> 206

Met Lys Phe His Ser Asp Pro Ser Cys Val Pro Ser Ile Gln Ile Asn
1 5 10 15

Lys Arg Asp Tyr Arg Arg Gly Pro Leu Arg Leu Ala Asn
20 25

<210> 207
<211> 21
<212> PRT
<213> Homo sapien

<400> 207

Met Leu Pro Pro Tyr Leu Pro Lys Leu Leu Leu Gln Phe Val Phe Leu
1 5 10 15

Pro Val Ile Tyr Lys
20

<210> 208
<211> 29
<212> PRT
<213> Homo sapien

<400> 208

Met Arg Asn Val Gln Arg Lys Phe Tyr Asn Lys Arg Val Gln Gln Gly
1 5 10 15

Cys Lys Ile Lys Asp Lys His Ile Asn Ser Ser Cys Ile
20 25

<210> 209
<211> 42
<212> PRT
<213> Homo sapien

<400> 209

Met Glu Leu Pro Leu Phe Ser Leu Ser Cys Ser Tyr Lys Pro Cys Ala
1 5 10 15

Phe Phe Asp His Ser Thr Ala Thr Ala Ala Leu Val Met Pro Phe Leu
20 25 30

Ile Ile Pro Gly Ser His Thr Thr Arg Pro
35 40

<210> 210
<211> 18
<212> PRT
<213> Homo sapien

<400> 210

Met Gly Tyr Leu Gly Leu Gly Met Ala Ala Gly Phe Lys Glu Arg Val
1 5 10 15

Val Glu

<210> 211
<211> 70
<212> PRT
<213> Homo sapien

<400> 211

Met Glu Leu Leu Gly Ser Asp Arg Ser Pro Val Ser Phe Leu Ile His
1 5 10 15

Trp Leu Pro Thr Arg Leu Pro His Gly Val Ser Leu Gly Ser Arg Leu
20 25 30

Ser Ile Leu Ser Thr Phe Thr Tyr Val Asp Trp Leu Ala Glu Val Ser
35 40 45

Thr Leu Gly Leu Asp Trp Lys Ile Leu Gln Thr Lys Lys Ala Arg Asp
50 55 60

Ser Val Pro Pro Thr Ser
65 70

<210> 212
<211> 44
<212> PRT
<213> Homo sapien

<400> 212

Met Ala Asp Phe Asn Trp Met Leu Tyr Leu Gly Phe Ser Lys Ala Lys
1 5 10 15

Lys Val Tyr Thr Leu Leu Gln Leu Gly Val Gly Leu Gln Ala Val Cys
20 25 30

Tyr Ile His Val Leu Val Pro Val Ile Leu Thr Phe
35 40

<210> 213
<211> 71
<212> PRT
<213> Homo sapien

<220>
<221> MISC_FEATURE
<222> (3)..(3)

<223> X=any amino acid

<220>
<221> MISC_FEATURE
<222> (14)..(14)
<223> X=any amino acid

<400> 213

Met Cys Xaa Leu Gln Thr Val Tyr Ser Trp Thr Leu Leu Xaa Tyr Phe
1 5 10 15

Asn Pro Ser Asp Asn Leu Cys Ile Leu Ile Arg Phe Leu Asn Pro Phe
20 25 30

Thr Phe Asn Val Met Phe Asp Ile Ser Trp Ile Tyr Ser Cys His Phe
35 40 45

Thr Phe Gly Leu Leu Cys Leu Met Tyr Phe Ser Val Leu Leu Phe Leu
50 55 60

Pro Tyr Cys Phe Leu Leu His
65 70

<210> 214
<211> 22
<212> PRT
<213> Homo sapien

<400> 214

Met Thr Arg Ile Cys Cys Lys Ile His Phe Leu Lys Cys Leu Lys Lys
1 5 10 15

Glu Met Glu Ile Ser Ser
20

<210> 215
<211> 55
<212> PRT
<213> Homo sapien

<400> 215

Met Phe Ser Met Leu Arg Tyr Cys Tyr Gln Cys Pro Leu Pro Leu Lys
1 5 10 15

Met Thr Ala Glu Ser Lys His Phe Pro Glu Asn Ser Tyr Thr Gln Ile
20 25 30

Phe Val Pro Leu Phe Phe Tyr Thr Ala Pro Cys Leu Phe Ile Ser Val
35 40 45

His Ser Ser Tyr His Met Leu
50 55

<210> 216
<211> 49
<212> PRT
<213> Homo sapien

<400> 216

Met Pro Ser Ala Phe Glu Asn Asp Cys Arg Ile Gln Thr Phe Ser Arg
1 5 10 15

Lys Leu Leu Tyr Ile Asp Leu Cys Ser Phe Ile Leu Leu His Ser Thr
20 25 30

Leu Phe Val His Lys Cys Ser Gln Leu Ile Ser His Val Val Ile Met
35 40 45

Cys

<210> 217
<211> 62
<212> PRT
<213> Homo sapien

<400> 217

Met Glu Arg Cys Ala Gly Ser Glu Pro Ala Arg Lys Glu Asn Ile Ser
1 5 10 15

Arg Leu Phe Cys Arg Met Gln Asn Trp Val Tyr Leu Gln Thr Asp Val
20 25 30

Leu Pro Ser Lys Gly Leu Ala Thr Thr Phe Asp Pro Gln Ser Lys Val
35 40 45

Asn Thr Ala Ile His Cys Ser Gln Thr Arg Val His Leu Pro
50 55 60

<210> 218
<211> 29
<212> PRT

<213> Homo sapien

<400> 218

Met Thr Thr Ser Ser Arg Thr Ile Ile Gly Lys Ile Gln Asp Leu Ser
1 5 10 15

Val Leu Ser Thr Val Ser Gln Ile Ser Asp Arg Pro Arg
20 25

<210> 219
<211> 28
<212> PRT
<213> Homo sapien

<400> 219

Met Gly Phe Tyr His Lys Gly Met Ser Glu Thr Phe Ile Cys Ala Gly
1 5 10 15

Thr Ser Ala Gln Ser Leu Asn Ala Val Ser Glu Cys
20 25

<210> 220
<211> 56
<212> PRT
<213> Homo sapien

<400> 220

Met Phe Ala Ser Glu Phe Phe Phe Leu Val Ile Cys Leu Val Trp Asp
1 5 10 15

His Val Ala Phe Phe Ser Leu Thr Arg Val Ile Lys Val His Thr Val
20 25 30

Lys Ser Met Arg Ser Lys Ala Leu Arg Arg Arg Leu Leu Ser Val Asn
35 40 45

Val Met Ala Gly Ala Ile Arg Leu
50 55

<210> 221
<211> 97
<212> PRT
<213> Homo sapien

<400> 221

Arg Ala Arg Ala Glu Ala Ala Arg Ala Arg Gly Glu Val Cys Phe His
1 5 10 15

Cys Arg Lys Pro Gly His Gly Ile Ala Asp Cys Pro Ala Ala Leu Glu
20 25 30

Asn Gln Asp Met Gly Thr Gly Ile Cys Tyr Arg Cys Gly Ser Thr Glu
35 40 45

His Glu Ile Thr Lys Cys Lys Ala Lys Val Asp Pro Ala Leu Gly Glu
50 55 60

Phe Pro Phe Ala Lys Cys Phe Val Cys Gly Glu Met Gly His Leu Ser
65 70 75 80

Arg Ser Cys Pro Asp Asn Pro Lys Gly Leu Tyr Ala Asp Gly Lys Tyr
85 90 95

Cys

<210> 222
<211> 36
<212> PRT
<213> Homo sapien

<220>
<221> MISC_FEATURE
<222> (30)..(30)
<223> X=any amino acid

<220>
<221> MISC_FEATURE
<222> (33)..(33)
<223> X=any amino acid

<400> 222

Met Ser Glu Ala Ser Leu Ser Leu Lys Glu Gln Lys Phe Cys His Pro
1 5 10 15

Val Val Leu Tyr Asn Leu Glu Asn Pro Leu Asn Leu Thr Xaa Leu Gln
20 25 30

Xaa Tyr Leu Leu
35

<210> 223
<211> 65

<212> PRT
<213> Homo sapien

<400> 223

Met Leu Cys Gly Val Leu Cys Trp Gly Trp Gly Cys Gln Asp Glu Lys
1 5 10 15

Gln Pro Cys Gly Cys Ala Leu Gly Phe Thr Ser Gln Thr Ser Val Ala
20 25 30

Phe Ala Arg Arg Lys Asp Ser Gln Gly Leu His Ile Cys Cys Pro Gln
35 40 45

Phe Cys Pro Phe Ser Asn Lys Ser His Thr Ser Asn Leu Leu Val Ala
50 55 60

His
65

<210> 224
<211> 804
<212> PRT
<213> Homo sapien

<400> 224

Ala Lys Pro Leu Thr Asp Gln Glu Lys Arg Arg Gln Ile Ser Ile Arg
1 5 10 15

Gly Ile Val Gly Val Glu Asn Val Ala Glu Leu Lys Lys Ser Phe Asn
20 25 30

Arg His Leu His Phe Thr Leu Val Lys Asp Arg Asn Val Ala Thr Thr
35 40 45

Arg Asp Tyr Tyr Phe Ala Leu Ala His Thr Val Arg Asp His Leu Val
50 55 60

Gly Arg Trp Ile Arg Thr Gln Gln His Tyr Tyr Asp Lys Cys Pro Lys
65 70 75 80

Arg Val Tyr Tyr Leu Ser Leu Glu Phe Tyr Met Gly Arg Thr Leu Gln
85 90 95

Asn Thr Met Ile Asn Leu Gly Leu Gln Asn Ala Cys Asp Glu Ala Ile
100 105 110

```
Tyr Gln Leu Gly Leu Asp Ile Glu Glu Leu Glu Glu Ile Glu Glu Asp
        115                 120                 125

Ala Gly Leu Gly Asn Gly Gly Leu Gly Arg Leu Ala Ala Cys Phe Leu
    130                 135                 140

Asp Ser Met Ala Thr Leu Gly Leu Ala Ala Tyr Gly Tyr Gly Ile Arg
145                 150                 155                 160

Tyr Glu Tyr Gly Ile Phe Asn Gln Lys Ile Arg Asp Gly Trp Gln Val
                165                 170                 175

Glu Glu Ala Asp Asp Trp Leu Arg Tyr Gly Asn Pro Trp Glu Lys Ser
            180                 185                 190

Arg Pro Glu Phe Met Leu Pro Val His Phe Tyr Gly Lys Val Glu His
        195                 200                 205

Thr Asn Thr Gly Thr Lys Trp Ile Asp Thr Gln Val Val Leu Ala Leu
    210                 215                 220

Pro Tyr Asp Thr Pro Val Pro Gly Tyr Met Asn Asn Thr Val Asn Thr
225                 230                 235                 240

Met Arg Leu Trp Ser Ala Arg Ala Pro Asn Asp Phe Asn Leu Arg Asp
                245                 250                 255

Phe Asn Val Gly Asp Tyr Ile Gln Ala Val Leu Asp Arg Asn Leu Ala
            260                 265                 270

Glu Asn Ile Ser Arg Val Leu Tyr Pro Asn Asp Asn Val Ala Ile Gln
        275                 280                 285

Leu Asn Asp Thr His Pro Ala Leu Ala Ile Pro Glu Leu Met Arg Ile
    290                 295                 300

Phe Val Asp Ile Glu Lys Leu Pro Trp Ser Lys Ala Trp Glu Leu Thr
305                 310                 315                 320

Gln Lys Thr Phe Ala Tyr Thr Asn His Thr Val Leu Pro Glu Ala Leu
                325                 330                 335

Glu Arg Trp Pro Val Asp Leu Val Glu Lys Leu Leu Pro Arg His Leu
            340                 345                 350
```

```
Glu Ile Ile Tyr Glu Ile Asn Gln Lys His Leu Asp Arg Ile Val Ala
        355                 360                 365

Leu Phe Pro Lys Asp Val Asp Arg Leu Arg Arg Met Ser Leu Ile Glu
    370                 375                 380

Glu Glu Gly Ser Lys Arg Ile Asn Met Ala His Leu Cys Ile Val Gly
385                 390                 395                 400

Ser His Ala Val Asn Gly Val Ala Lys Ile His Ser Asp Ile Val Lys
                405                 410                 415

Thr Lys Val Phe Lys Asp Phe Ser Glu Leu Glu Pro Asp Lys Phe Gln
            420                 425                 430

Asn Lys Thr Asn Gly Ile Thr Pro Arg Arg Trp Leu Leu Leu Cys Asn
        435                 440                 445

Pro Gly Leu Ala Glu Leu Ile Ala Glu Lys Ile Gly Glu Asp Tyr Val
    450                 455                 460

Lys Asp Leu Ser Gln Leu Thr Lys Leu His Ser Phe Leu Gly Asp Asp
465                 470                 475                 480

Val Phe Leu Arg Glu Leu Ala Lys Val Lys Gln Glu Asn Lys Leu Lys
                485                 490                 495

Phe Ser Gln Phe Leu Glu Thr Glu Tyr Lys Val Lys Ile Asn Pro Ser
            500                 505                 510

Ser Met Phe Asp Val Gln Val Lys Arg Ile His Glu Tyr Lys Arg Gln
        515                 520                 525

Leu Leu Asn Cys Leu His Val Ile Thr Met Tyr Asn Arg Ile Lys Lys
    530                 535                 540

Asp Pro Lys Lys Leu Phe Val Pro Arg Thr Val Ile Ile Gly Gly Lys
545                 550                 555                 560

Ala Ala Pro Gly Tyr His Met Ala Lys Met Ile Ile Lys Leu Ile Thr
                565                 570                 575

Ser Val Ala Asp Val Val Asn Asn Asp Pro Met Val Gly Ser Lys Leu
```

```
            580                 585                 590

Lys Val Ile Phe Leu Glu Asn Tyr Arg Val Ser Leu Ala Glu Lys Val
        595                 600                 605

Ile Pro Ala Thr Asp Leu Ser Glu Gln Ile Ser Thr Ala Gly Thr Glu
    610                 615                 620

Ala Ser Gly Thr Gly Asn Met Lys Phe Met Leu Asn Gly Ala Leu Thr
625                 630                 635                 640

Ile Gly Thr Met Asp Gly Ala Asn Val Glu Met Ala Glu Glu Ala Gly
                645                 650                 655

Glu Glu Asn Leu Phe Ile Phe Gly Met Arg Ile Asp Asp Val Ala Ala
            660                 665                 670

Leu Asp Lys Lys Gly Tyr Glu Ala Lys Glu Tyr Tyr Glu Ala Leu Pro
        675                 680                 685

Glu Leu Lys Leu Val Ile Asp Gln Ile Asp Asn Gly Phe Phe Ser Pro
    690                 695                 700

Lys Gln Pro Asp Leu Phe Lys Asp Ile Ile Asn Met Leu Phe Tyr His
705                 710                 715                 720

Asp Arg Phe Lys Val Phe Ala Asp Tyr Glu Ala Tyr Val Lys Cys Gln
                725                 730                 735

Asp Lys Val Ser Gln Leu Tyr Met Asn Pro Lys Ala Trp Asn Thr Met
            740                 745                 750

Val Leu Lys Asn Ile Ala Ala Ser Gly Lys Phe Ser Ser Asp Arg Thr
        755                 760                 765

Ile Lys Glu Tyr Ala Gln Asn Ile Trp Asn Val Glu Pro Ser Asp Leu
    770                 775                 780

Lys Ile Ser Leu Ser Asn Glu Ser Asn Lys Val Asn Gly Asn Asn Lys
785                 790                 795                 800

Val Asn Gly Asn
```

<210> 225
<211> 60
<212> PRT
<213> Homo sapien

<400> 225

Met Gly Asp Leu Tyr Lys Lys Glu Leu Lys Lys Arg Arg Asn Val Ile
1 5 10 15

Ser Met Leu Leu Gln Val Lys Gly Lys Gln Glu Asp Lys Tyr His Lys
20 25 30

Lys Thr Lys Met Tyr Leu Thr Phe Trp Asp Lys Ile Val Gly Ser Thr
35 40 45

Glu Asn Trp Asn Leu Glu Leu Pro Val Pro Gln Arg
50 55 60

<210> 226
<211> 46
<212> PRT
<213> Homo sapien

<400> 226

Met Phe Tyr Glu Tyr Lys Glu Tyr Asn Glu Cys Tyr Tyr Lys Tyr Ile
1 5 10 15

His Ala Asn Arg Asp Phe Gln Tyr Pro Thr Phe Ser Gln Phe Arg Leu
20 25 30

Pro Glu Ile Gly Leu Leu Gly Gln Arg Leu Gln Thr Tyr Phe
35 40 45

<210> 227
<211> 13
<212> PRT
<213> Homo sapien

<400> 227

Met Arg Arg Trp Tyr Ile Trp Glu Val Ser Arg Gly Tyr
1 5 10

<210> 228
<211> 27
<212> PRT
<213> Homo sapien

<400> 228

```
Met Phe Leu Arg Tyr Leu Gly Lys Ser Ser Glu Pro Cys Val Ala Asn
1               5                   10                  15

Gly Asn Ala Val Val Gln Trp Gly Leu Leu Gly
            20                  25
```

<210> 229
<211> 45
<212> PRT
<213> Homo sapien

<400> 229

```
Met Ala Thr Asn Ser Cys Leu Tyr Ser Thr His Lys Gln Phe Gln Tyr
1               5                   10                  15

Met Phe Cys Asp Arg Ser Pro Lys Ile Ser Ser Phe Met Val Pro Gly
            20                  25                  30

Arg Thr Glu Asn Ser Arg Met Gln Leu Leu Lys Leu Phe
        35                  40                  45
```

<210> 230
<211> 96
<212> PRT
<213> Homo sapien

<400> 230

```
Lys Arg Gln Gly Leu Ala Leu Ser Pro Arg Leu Glu Tyr Asn Asp Val
1               5                   10                  15

Ile Ile Ala His Arg Asn Phe Glu Leu Pro Gly Ser Ser Asn Pro Ser
            20                  25                  30

Ala Ser Ala Ser Gln Glu Leu Gly Leu Gln Thr Cys Ala Thr Thr Ser
        35                  40                  45

Ser Phe Phe Ile Phe Cys Arg Gly Arg Val Ser Leu Cys Cys Pro Gly
    50                  55                  60

Gly Val Ser His Ser Thr Ser Ser Asn Pro Thr Ala Ser Ala Ser Gln
65                  70                  75                  80

Arg Ala Arg Ile Thr Gly Leu Ser His Cys Thr Gln Pro Lys Ala Leu
                85                  90                  95
```

<210> 231
<211> 56
<212> PRT
<213> Homo sapien

<400> 231

Met Leu Ala Leu Ser His Trp Thr Val Val Pro Ser His Pro Leu Ser
1 5 10 15

Pro Ser Leu Asp His Glu His Ser Arg Ala Arg Thr Thr Ser Val Leu
20 25 30

Phe Thr Ala Val His Pro Ala Leu Thr Gln Cys Leu Met His Ala Leu
35 40 45

Gly Ala Gln Glu Val Leu Ile Gln
50 55

<210> 232
<211> 34
<212> PRT
<213> Homo sapien

<400> 232

Met Asp Ser Pro Lys Arg Val Ser Ser Asp Leu Ser Leu Leu Arg Asn
1 5 10 15

Lys Ile Leu Asp Ser Gly Cys Val Cys Phe Arg Cys Cys Gly Thr Gly
20 25 30

Trp Phe

<210> 233
<211> 34
<212> PRT
<213> Homo sapien

<400> 233

Met Leu Ser Ala Phe Phe Thr Leu Ile Leu Ser Pro Val Tyr Arg Arg
1 5 10 15

Val Phe Gln Arg Leu His Met Arg Tyr Leu Asn Lys Leu Lys Ala Glu
20 25 30

Glu Ile

<210> 234
<211> 35
<212> PRT
<213> Homo sapien

<400> 234

Met Cys Phe Glu Thr Gly Glu Tyr Ser Trp Ser Gly Ala Gly Ala Gln
1 5 10 15

Asn Thr Arg Phe Leu Cys Ser Asp Asn Leu Cys Ser Leu Ala Leu Leu
20 25 30

Leu Ile Tyr
35

<210> 235
<211> 40
<212> PRT
<213> Homo sapien

<400> 235

Met Ile Asn Glu Gln Met Asn Ile Ser Glu Lys Leu Val Tyr Ile Ile
1 5 10 15

Met Asn Arg Leu Val Leu His Phe Tyr Lys Asn Arg Lys Leu Lys Ile
20 25 30

Lys Lys Lys Ile Leu Pro Lys Lys
35 40

<210> 236
<211> 60
<212> PRT
<213> Homo sapien

<400> 236

Met Tyr Lys Cys Leu Leu Glu Ala His Glu Val Tyr Arg Trp Phe Leu
1 5 10 15

Pro Gln Tyr Leu Thr Ile Val Lys Phe Gln Ala Met Pro Leu Leu Ser
20 25 30

Thr Thr Phe Ser Leu Arg Ser Thr Gly Ile Trp Leu Arg Phe His Ser
35 40 45

Asp Asp Leu Leu Ser Glu Thr Leu Arg Leu Glu Lys
50 55 60

<210> 237
<211> 36
<212> PRT
<213> Homo sapien

<400> 237

Met Ser Leu Tyr Leu Phe Ser Pro Phe His Cys Pro Phe Phe Phe Pro
1 5 10 15

His Leu Pro Leu Cys Ser Val Leu Ser Leu Ala Ser Ser Cys Gln Tyr
20 25 30

Val Asp Phe Cys
35

<210> 238
<211> 66
<212> PRT
<213> Homo sapien

<400> 238

Met Phe Phe Tyr Leu Ser Lys Thr Leu Pro Met Phe Leu Leu Lys His
1 5 10 15

His Ser Tyr Ser Lys Thr Lys Val Asn Glu Asn Leu Tyr Gln Asp Asp
20 25 30

Cys Pro Gln Ser Ser Gly Trp Thr Thr Cys Leu Ser Ser Ile Ile Leu
35 40 45

Cys Ile Ile Ser Leu Ile His Ser Asn Ser Leu Cys Ile Ile Cys Ala
50 55 60

Ser Gly
65

<210> 239
<211> 31
<212> PRT
<213> Homo sapien

<400> 239

Met Cys His Gly Phe Val Thr Pro Tyr Tyr Tyr Tyr Leu Ser Leu Ala
1 5 10 15

```
Ser Cys Tyr Cys Pro Tyr Leu Thr Thr Ile Thr Ser Met Ser Ser
            20                  25                  30
```

<210> 240
<211> 44
<212> PRT
<213> Homo sapien

<400> 240

```
Met Asn Asn Ile Ile Pro Leu Leu Ile Leu Met Gly Leu Phe Phe Leu
1               5                   10                  15

Ser Gln Ser Ala Leu Ile His Ile Gly Ser Leu Asn Ser Ser Asn Ile
            20                  25                  30

Ile Lys Ser Phe Ser Pro Arg Asp Pro Thr Phe Arg
        35                  40
```